Form 3160-3
(December 1990)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: U-0140746

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute-Ouray

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

7. UNIT AGREEMENT NAME: Gypsum Hills Unit

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: Gypsum Hills #9

2. NAME OF OPERATOR: Chevron U.S.A. Production Co.

9. API WELL NO.:

3. ADDRESS AND TELEPHONE NO.: 100 Chevron Rd., Rangely, CO 81648 (303) 675-3700

10. FIELD AND POOL, OR WILDCAT: Gypsum Hills, Green River

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2056' FNL & 663' FEL (SE NE) Sec. 20
At proposed prod. zone: As above

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 20, 8S, 21E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 6.9 miles northeast of Ouray, UT

12. COUNTY OR PARISH: Uintah

13. STATE: UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
663'	1237.99	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH** GRRV	**20. ROTARY OR CABLE TOOLS**
1311'	±5300' MD & TVD	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 4683'

22. APPROX. DATE WORK WILL START*: August 1, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	K-55 8 5/8"	24#	± 500'	±300 sxs
7 7/8"	K-55 5 1/2"	17#	±5300'	To be determined by logs

Attachments:
Certified Plat
Drilling Program
Chevron Class III BOPE
Geologic Program
Multipoint Surface Use Plan

Completion Procedure to be submitted by Sundry Notice.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED J. D. Howard / J. D. Howard TITLE Drilling Technologist DATE 6-5-92

(This space for Federal or State office use)

PERMIT NO. 43-047-30304 APPROVAL DATE

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-22-92
BY:
WELL SPACING: 649-2-3

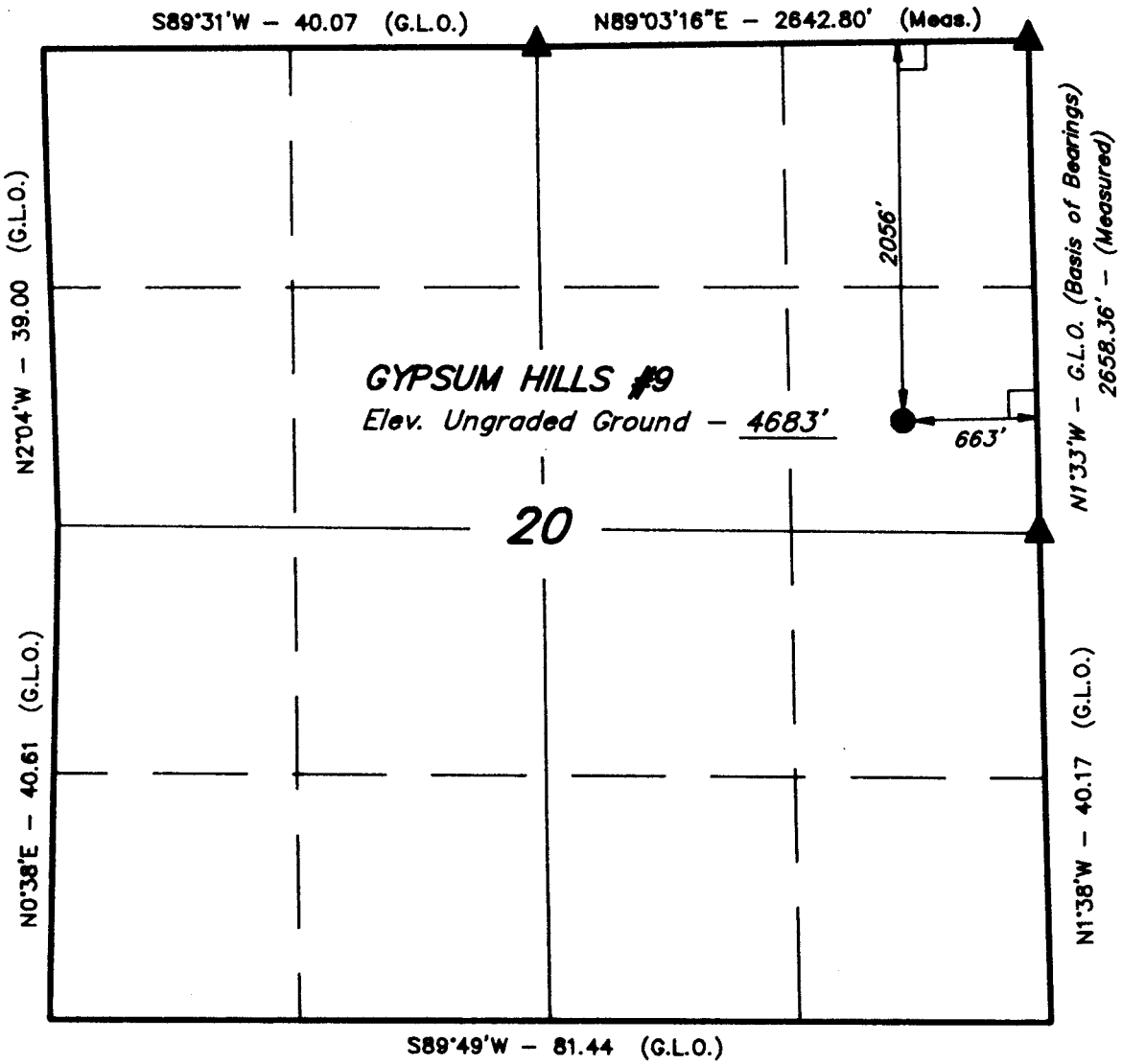
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

TITLE DATE

Chevron USA,Rangely,CO TEL:303-675-3800 Jun 22,92 8:42 No.005 P.02
303 675 3800

T8S, R21E, S.L.B.&M.



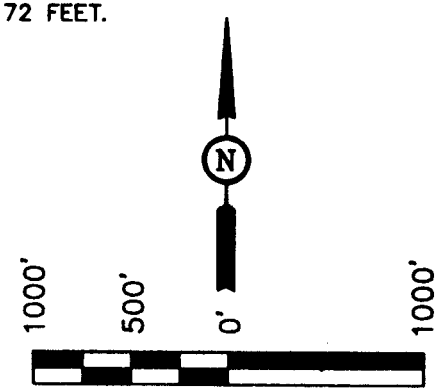
▲ = SECTION CORNERS LOCATED. (Brass Caps)

CHEVRON U.S.A. INC.

Well location, GYPSUM HILLS #9, located as shown in the SE 1/4 NE 1/4 of Section 20, T8S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK #45 EAM LOCATED IN THE NORTH 1/2 OF SECTION 5, T8S, R21E, S.L.B.&M. TAKEN FROM THE BRENNAN BASIN QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS STAMPED AS BEING 4688.72 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 – 85 SOUTH – 200 EAST
VERNAL, UTAH – 84078

SCALE 1" = 1000'	DATE 6-27-91
PARTY D.A. D.S. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE CHEVRON U.S.A. INC.

Hang in There!!!

The Fax is on it s way!!

PANAFAX TRANSMISSION

Chevron U.S.A. Inc.
100 Chevron Road
Rangely, CO 81648

(303) 675-3700 - Confirm
(303) 675-3800 - Panafax

CTN NUMBERS ARE THE SAME

SENT TO: UTAH Board of Oil, GAS & MINING / S.L.C. UTAH

ATTN: FRANK MATTHEWS

FAX #: (801) 359-3940

FROM: CHEVRON USA / RANGELY CO

J. D. HOWARD

Phone: (303) 675-3791

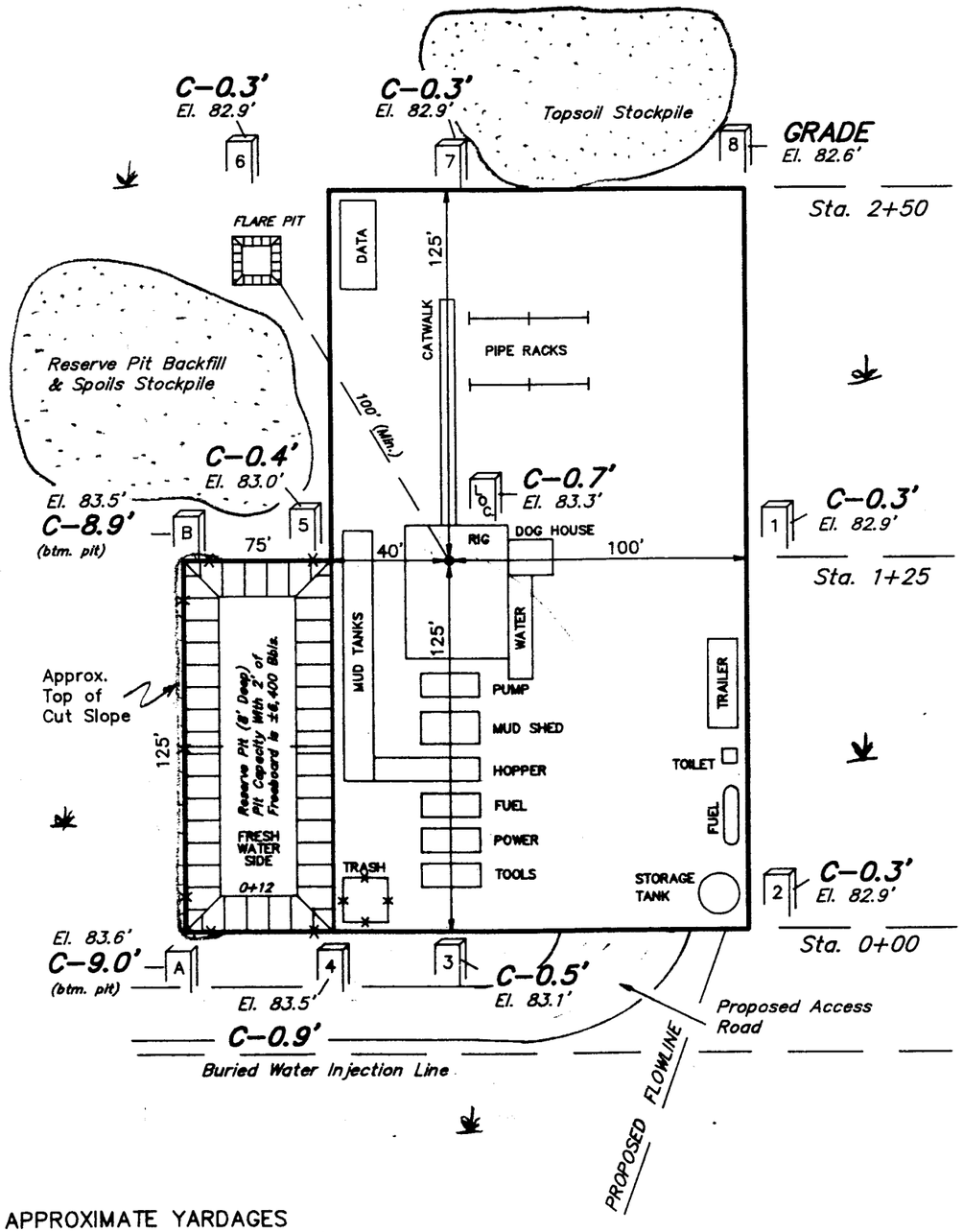
TOTAL NUMBER OF PAGES BEING SENT (INCLUDING THIS ONE) 2

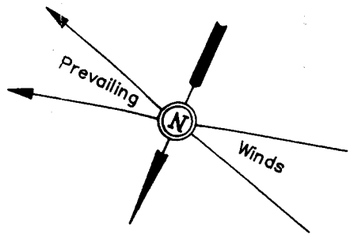
NOTE:

CHEVRON U.S.A., INC.

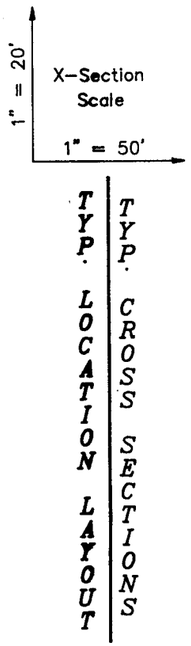
LOCATION LAYOUT FOR

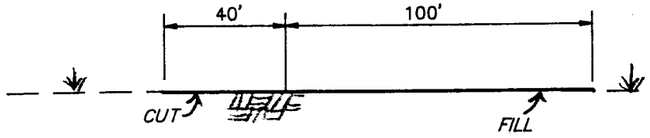
GYPSUM HILLS #9
SECTION 20, T8S, R21E, S.L.B.&M.



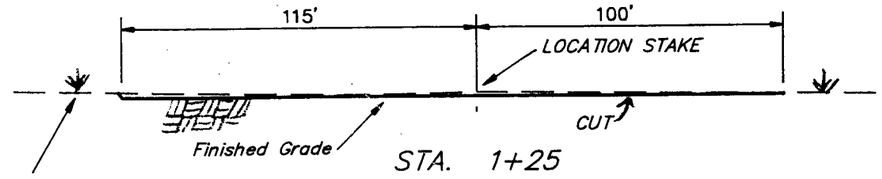


SCALE: 1" = 50'
DATE: 6-27-91
Drawn By: R.E.H.

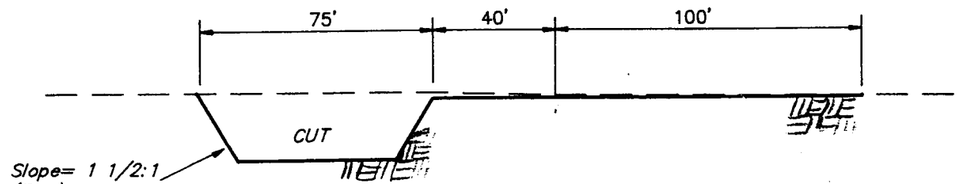




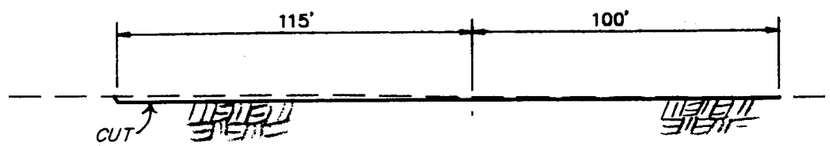
STA. 2+50



STA. 1+25



STA. 0+12



STA. 0+00

APPROXIMATE YARDAGES

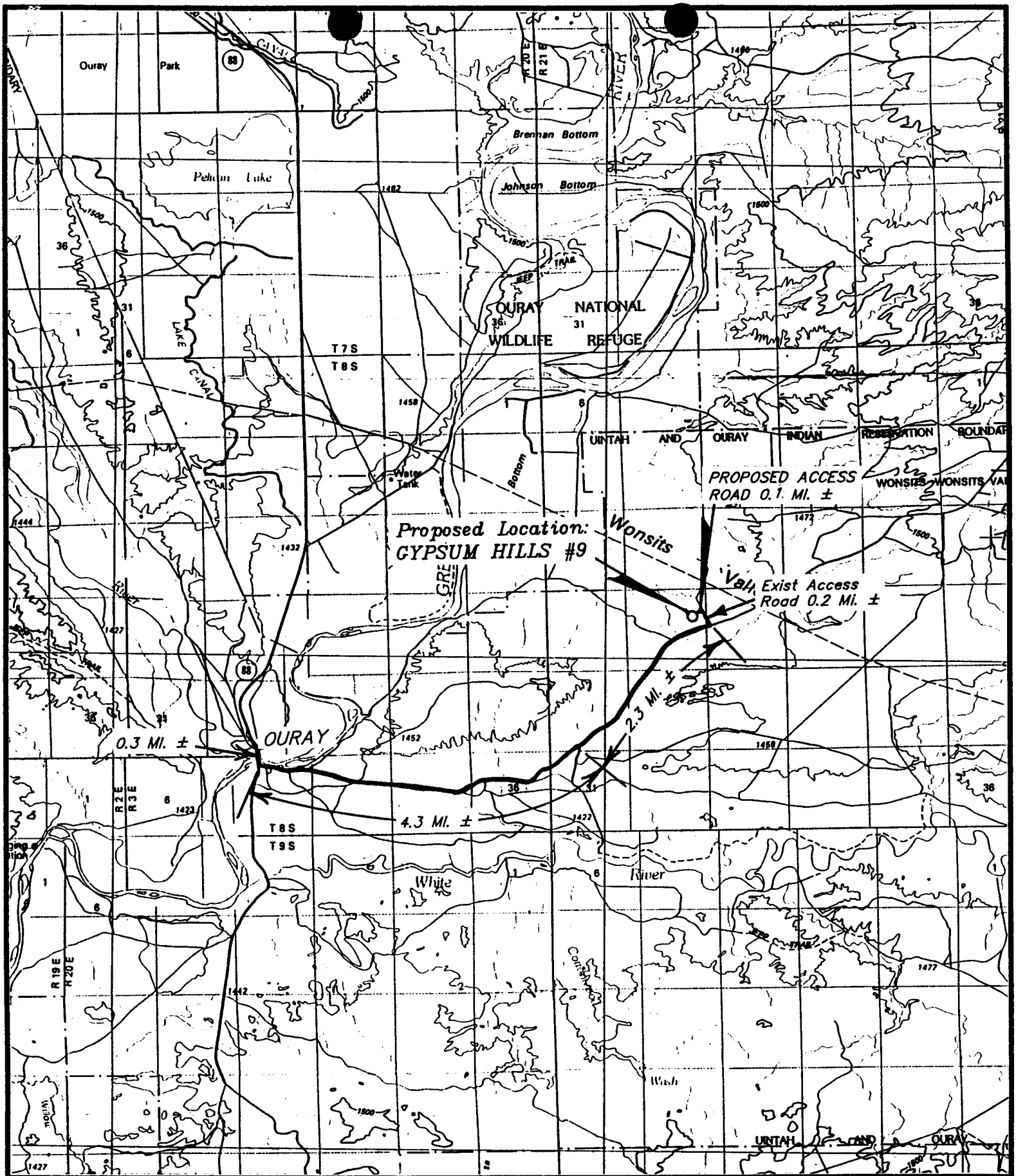
(12") Topsoil Stripping	= 1,650	Cu. Yds.
Remaining Location	= 2,050	Cu. Yds.
TOTAL CUT	= 3,700	CU.YDS.
FILL	= 750	CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,910	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,850	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 60	Cu. Yds.

Elev. Ungraded Ground at Location Stake = **4683.3'**

Elev. Graded Ground at Location Stake = **4282.6'**

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah



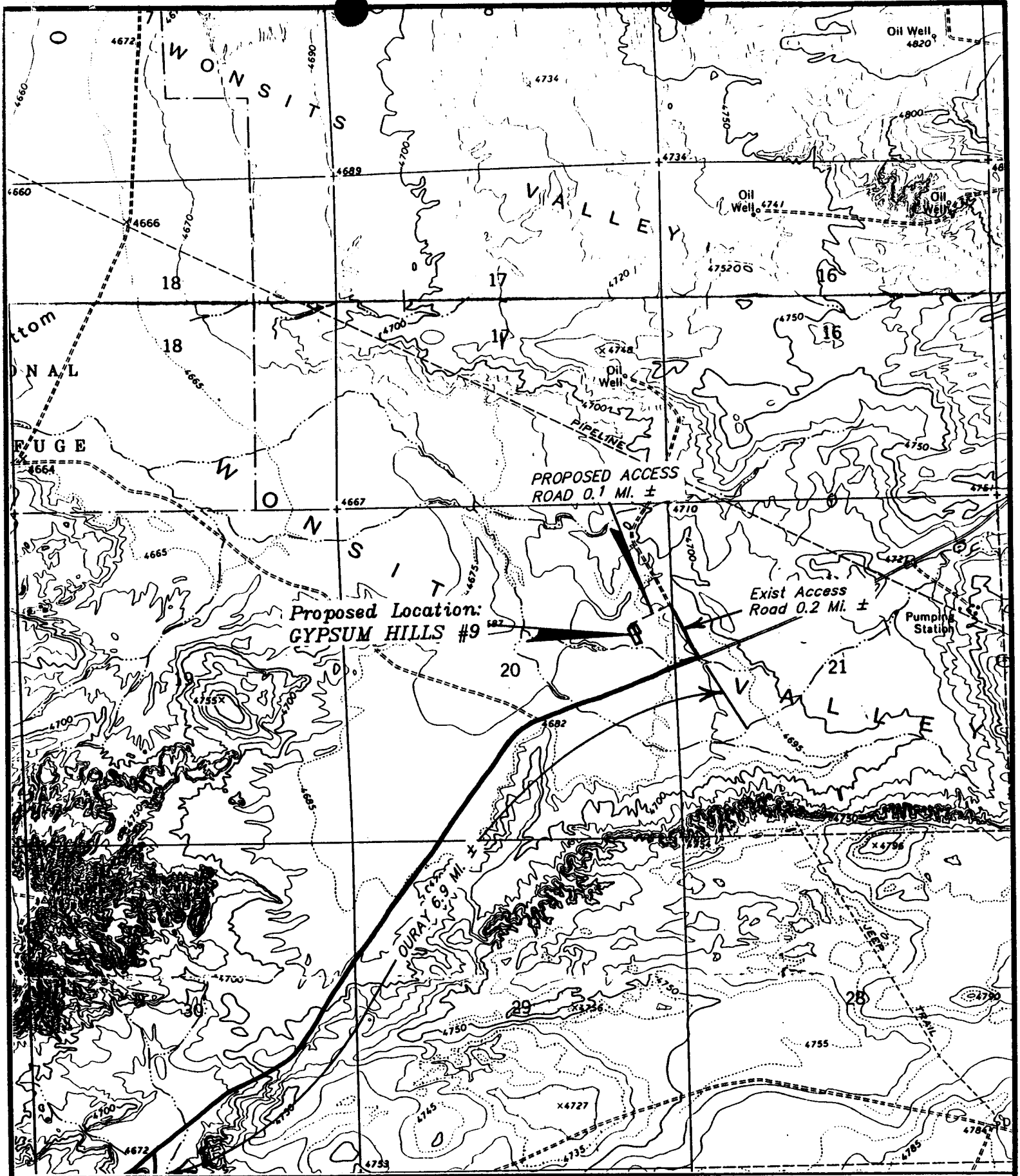
TOPOGRAPHIC MAP "A"

DATE 6-26-91 R.E.H.

N

CHEVRON U.S.A. INC.

GYPSUM HILLS #9
SECTION 20, T8S, R21E, S.L.B.&M.



TOPOGRAPHIC
MAP "B"
SCALE: 1" = 2000'
DATE 6-26-91 R.E.H.

N

CHEVRON U.S.A. INC.

GYPSUM HILLS #9
SECTION 20, T8S, R21E, S.L.B.&M.

GYPSUM HILLS #9
DRILLING PROGRAM
API#
AFE#

SURFACE CSG WILL BE SET PRIOR TO MOVING ON DRILLING RIG. CSG DEPTH WILL BE +/- 500' USING 8 5/8" 24#, K-55, STC CSG. THE WELLHEAD EQPT. WILL BE FROM STOCK, CONTACT DRLG SUPT. @ (303-675-3730), POSSIBLE SHALLOW OIL SHOWS F/ 2,500' - TD.

(NOTIFY ED FORSEMAN THE BLM 24 HRS PRIOR TO SPUD @ 801-789-7077 AND CAROL KUBLY W/ UTAH OIL & GAS @ 801-789-1388.

8 5/8" CSG JOB

24#, K-55 STC CSG AS FOLLOWS:
FS(SUPER SEAL/NON DIFFERENTIAL), 1 JT 8 5/8" CSG, FC, "X" JTS 8 5/8" CSG.
CENTRALIZERS: 1 - 5' ABOVE FS & FC, & 1 EVERY 4TH JT TO SURF.

CIRC 2 CSG VOLUMES & CMT 8 5/8" CSG TO SURFACE AS FOLLOWS:
CLASS H W/ 2% CaCl2 @ 16.4 PPG
W/ 50% EXCESS.
NOTE: HAVE SAFETY SWAGE ON FLOOR & NOTE IN TOUR REPORT
USE TOP & BTM PLUG
BUMP PLUG W/ 300-500 PSI OVER FINAL PUMP PRESS.
NOTIFY THE STATE 24 HOURS PRIOR TO CMT & TESTING BOPE.

MAKE ROUGH CUT ON CSG & CENTER, MAKE FINAL CUT & INSTALL 11" X 8 5/8" - 3M CSG HEAD.

1) MIRU DRILLING RIG, N/U & TEST CHEVRON CLASS III BOPE **(250 LOW/ 3000 HIGH)**, TEST HYDRIL TO 1500 PSI.

2) RIH W/ 7 7/8" BIT TO TOP OF FC & TEST CSG TO 1500 PSI FOR 30 MIN, DRILL OUT PLUGS, FC, & +/- 20' CMT & RETEST SAME AS ABOVE. DRILL OUT FS PLUS 10' NEW FORMATION & PERFORM A FORMATION INTEGRITY TEST TO A 10ppg EMW.
BHA:BIT, BIT SUB W/ FLOAT, 18-6 3/4" DC, X/O
(NOTE: STAB @ 60')

3) DRILL 7 7/8" HOLE TO +/- 5,300' **(USE FW/GYP MUD TO 2500' & FWG/DISPERSED MUD F/ 2500' - 5300' AS HOLE PERMITS, DRILL AS CLOSE TO BALANCED CONDITIONS AS POSSIBLE TO REDUCE THE CHANCE OF FORMATION DAMAGE).**

NOTE: **POSSIBLE LOSS CIRC @ +/- 4,500'**
SHORT TRIP AS NEEDED
SURVEY EVERY 300-500'

4) CIRC & COND HOLE FOR LOGS., DROP SURVEY, POOH/SLM.

5) R/U & RUN LOGS AS PER GEOLOGIC PROGRAM **(CONTACT BOB RECTOR W/ GEOLOGY BEFORE RUNNING LOGS @ 930-3246, A DECISION WILL BE MADE @ THIS TIME TO RUN CSG OR P&A WELL).**

6) TIH & CIRC & COND HOLE FOR 5 1/2" CASING.

7) RUN 5 1/2", K-55, 17# LTC CSG AS FOLLOWS:
FS, 2 JTS 5 1/2" CSG, FC, "X"JTS 5 1/2" CSG.
CENTRALIZERS: 1 - 5' ABOVE FS & FC & 1 B/W FS & FC, THEN
1 EVERY JT TO 4,900' & 1 EVERY OTHER
JT F/ 4,800' - 80' BELOW SURFACE.

8) CIRC 2 CSG VOLUMES & CMT 5 1/2" AS DETAILED IN CMT PROGRAM.
NOTE: NOTIFY THE STATE 24 HOURS PRIOR TO CMT JOB

9) DROP SLIPS, MAKE ROUGH CUT, N/D BOPE, MAKE FINAL CUT & INSTALL TBG HEAD BONNET.

10) R/D & MOL.

COMPLETION TO BE DONE BY WO/COMPLETION RIG.

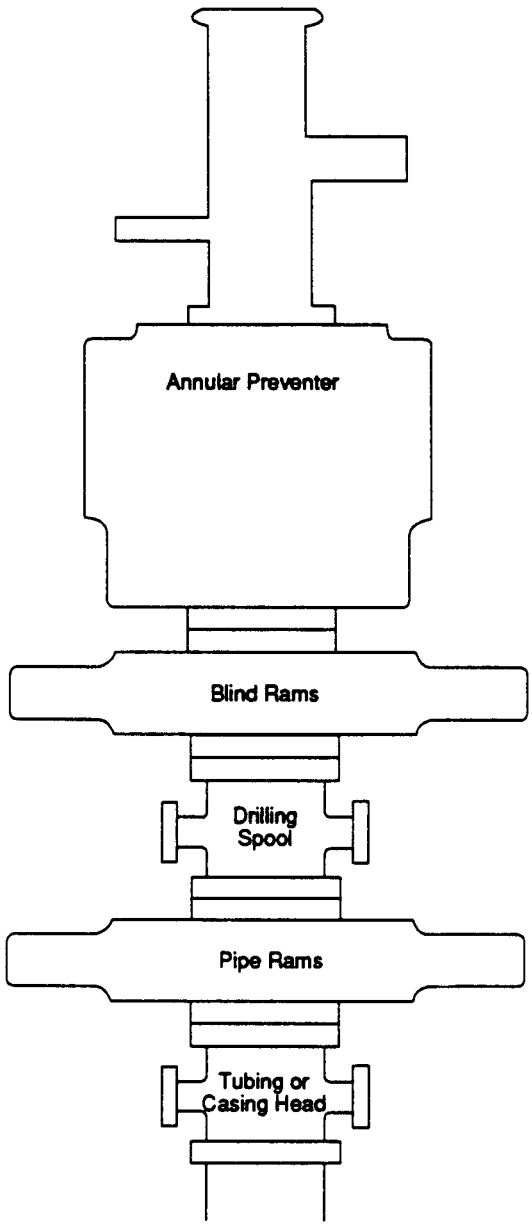
COMPLETE CONTRACTOR EVALUATION FORM & SEND INTO OFFICE W/ RIG MAIL.

D.H.HUDSPETH
#303-930-3926
19-MARCH-92

E. CLASS III BLOWOUT PREVENTER STACK:

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

Figure 11J.4
Class III Blowout Preventer Stack



D. CLASS III CHOKE MANIFOLD

The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

1. The manifold is attached to a drilling spool or the top ram preventer side outlet.

2. The minimun internal diameter is 2" (nominal) for outlets, flanges, valves and lines.

3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).

4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.

5. Includes a blooey line which runs straight through the cross and is isolated by a steel gate valve.

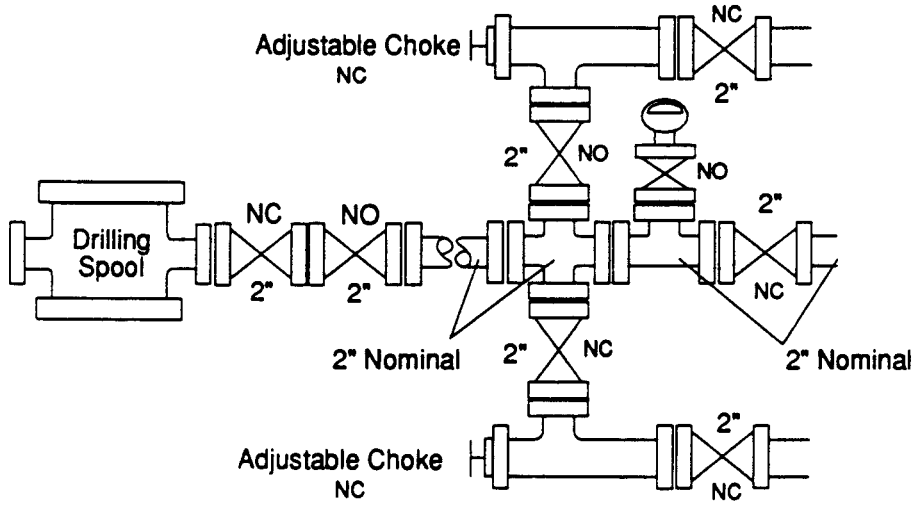
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.

7. Returns through the choke manifold must be divertible through a mud-gas seperator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.

8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.

Figure 11J.8 - Class III Choke Manifold

NC = Normally Closed
NO = Normally Open



D. TYPE "B" KILL LINE — CLASS III, IV , AND V WELLS

The type B kill line described below in Figure 11J.11 is the minimum recommended hookup for installation on all Class III, Class IV and Class V wells. Specific design features of the type B kill line include:

1. The preferred kill line connection to the well is at the drilling spool, however, a preventer side outlet may be used when space restrictions exclude the use of a drilling spool. In all cases, the kill line must be installed below the uppermost blind rams so the well can be pumped into with no pipe in the hole.

2 The arrangement includes two - 2" (nominal) gate valves installed at the drilling spool and an upstream fluid cross. The outside valve may be hydraulically remote controlled.

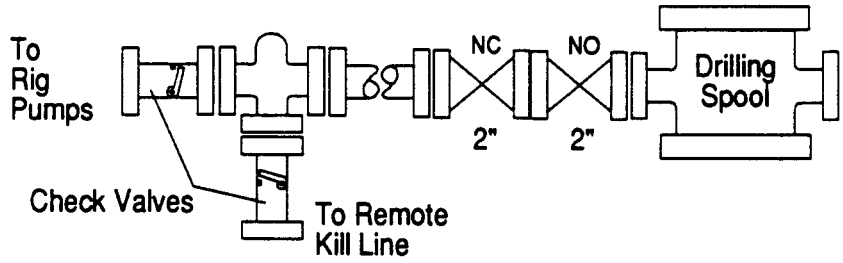
3. Two pump-in lines should be attached to the fluid cross. The **primary kill line** should be routed to the rig standpipe where it can be manifolded to the rig pumps. The **remote kill line** should be run to a safe location away from the rig or to the rig cementing unit. The remote kill line should have a loose end connection for rigging-up a high pressure pumping unit.

4. Both the primary kill line and the remote kill line must include a 2" check valve which is in working condition while drilling. If a check valve is crippled for testing purposes, the flapper or ball must be re-installed and tested before drilling resumes.

5. The primary kill line must include a pressure gauge which can display the pump-in pressure on the rig floor.

6. Any lines which are installed at the wellhead are designated as "**emergency kill lines**" and should only be used if the primary and remote kill lines are inoperable.

Figure 11J.11 - Type "B" Kill Line



DRILLING PROGRAM ATTACHMENT

GENERAL REMARKS

1. Applicable Federal and State Regulations will be adhered to during the drilling of this well.

2. The drilling rig is to be level and the kelly centered over the hole before drilling operations commence. Check periodically during the drilling of the well to insure the rig stays level.

3. Prior to spud insure all toolpushers, drillers and crews are thoroughly familiar with and understand the Chevron procedure for handling well kicks.

   In H_2S environments Chevron's contingency plan for your location is to be read, understood and adhered to. All personnel are to be thoroughly familiar with the use of air packs, the air supply system, locations of air packs and what to do in the event of sour gas to surface.

4. Test BOPE before drilling out and every seven days thereafter. Perform low pressure test (200 psi) and high pressure test. High pressure test should be 70% of BOPE working pressure or 70% of burst of last casing string, whichever is less. Record BOP tests on Tour Reports. Notify applicable Federal and State Regulatory Agencies 24 hours in advance of BOPE tests and record notification and names on Tour Reports.

5. Do not reuse ring gaskets. Replace with new Rx or Bx ring gaskets.

6. Separate full opening safety valves and inside BOP's are required for each size drill pipe in use. Test weekly with BOPE.

7. Run full open valve below kelly that can be run in the hole if necessary. Do not use this valve as a mud saver sub.

8. BOP controls are to remain in the open position during drilling operations.

9. Hold pit drills for each crew at least once every seven days and record on Tour Reports.

10. On trips fill the annulus before hydrostatic pressure drops 75 psi or every 5 stds of drill pipe, whichever is first. Use trip tanks to measure hole fill-up and monitor at all times.

11. Use drill pipe floats at all times unless your supervisor instructs otherwise.

12. Have wear ring installed in wellhead before tripping or rotating. Remember to remove wear ring before running casing or when testing BOPE.

13. Casing rams are to be installed and bonnets tested on last trip out before running casing.

14. Run pilot and thickening time tests with rig mixing water for all cement slurries prior to cementing operations.

15. Casing should be tested to 1,500 psi or 0.2 psi/ft., whichever is greater, prior to drilling out and recorded on Tour Reports. Discuss the test pressure with your supervisor and reference DM-49 before testing.

16. Drill out slick beneath each casing string. Drill deep enough to bury stabilization to be picked up.

17. Do not drill with hardbanded pipe inside of casing.

18. Do not run full gauge stabilizers. Run stabilizers 1/16" to 1/8" undergauge.

19. When necessary to work pipe, keep pipe moving up and down. Rotating alone is not considered sufficient.

20. Install and test full lubricator on all logging runs unless instructed otherwise by supervisor.

21. Fully describe damaged or lost equipment on Tour Reports.

DRL Form

DENVER DIVISION
DEVELOPMENT WELL

GEOLOGICAL INFORMATION:

Field/Area: Gypsum Hills Well Name: Gypsum Hills #9
Surface Locations: 2056' FNL 666' FEL Sec 20-T8S-R21E
State: Utah County: Uintah
Est. Surface Elevation: 4683' T.D.: 5300 TVD: 5300
Type of Completion: Rod Pump Oil Producer

Objective Formations	Expected Depth TVD	Target Radius	Expected BH Pressure	Type & Amount of Production
Grn Rvr - GL Lime	4977 ~5180		1200 psi	50 BOPD

Anticipated Drillstem Tests _____, Cores _____, _____

Wireline Logging Program and Depth to be Run: DIL/GR, LDT/CNL, Microlog

Logging Company: Schlumberger Estimated Cost: $15,000 max

Mud Logging Unit: _____ Starting @ base of surf csg ft.

Primary and uppermost expected hydrocarbon zones or corrosive water to be protected with cement: cmt To surf

Offset Well Data:

	Well Name & Number	Operator	Location
1)	Costas 3-21-1D	CUSA	SWNW S21-T8S-R21E
2)	GH 8-I	CUSA	SWNE S20-T8S-R21E
3)	Costas 2-20-3B	CUSA	NESE S20-T8S-R21E
4)	GH 3	CUSA	NENE S20-T8S-R21E

Formation Tops: (Measured Depth)

Name	Proposed Well	Offset Wells 1	2	3

Anticipated Abnormal Pressure or Depleted Zones that will be Penetrated:

Formation	Estimated TVD	Estimated Pressure

Geologist Responsible for Project: R T Rector Tele: 3246

COMPLETION INFORMATION:

Perforations (approx. intervals, shots/ft, type gun): 5180-5192, 4spf csg gun

Stimulation (type, volume, approx. cost): acid frac #40000

Testing (indicate any selective zone testing): swab tests before & after frac

Flow tests, build up tests, etc. (Indicate type & duration): none

Any Known or Suspected H_2S or CO_2? (Approximate percentages): no

Type of Anticipated Completion (Single or Dual): Single

Proposed tubing size: 2 7/8 Proposed Prod. Casing size: 5½

Artifical Lift Requirements (Rod pump, sub. pump, gas lift, etc.):
rod pump, rods, pumping unit, line heater, ~~[illegible]~~ production tank

Facilities & operations are providing cost estimates for production & surface equipment, including tbg.

CHEVRON U.S.A. PRODUCTION CO.

GYPSUM HILLS UNIT 9

SEC. 20, T8S, R21E

UNITAH COUNTY UTAH

MULTIPOINT SURFACE USE PLAN

1. EXISTING ROADS:
   A. See Topo Map A. There are no plans to change, alter or improve upon any existing state or county road.

   B. See Topo Map A. Travel west from Vernal approximately 15 miles on U S highway 40. Turn south on Utah State 88 and proceed approximately 16 miles to Ouray Utah. Turn left and proceed north east on existing lease road +\- 6.9 miles. Turn north on existing lease road .2 miles to access road to location.

2. PLANNED ACCESS ROAD

   See Topo Map A and B.

   The access road and location site are on BLM lands. The portion of the access road requiring upgrading is a span approximately .1 of a mile.

   A. Width: Maximum width 30', with an 18' travel area.

   B. Maximum Grade: No greater than 3%.

   C. Turnouts: None, no blind corners.

   D. Drainage design: Road to be placed and constructed so that minimal drainage alterations will be made. Water will be diverted around the well pad as necessary.

   E. Major cuts and fills: None.

   F. Surfacing Materials: Gravel as necessary.

   G. Other: No gates, cattleguards or fence cuts.

3. LOCATION OF EXISTING WELLS

   See Map B. There are no existing wells within the well site section.

4. LOCATION OF EXISTING OR PROPOSED FACILITIES

   A. See Map B.

B. Disturbed areas no longer needed for operations will be graded back to as near original contour as possible. Drainage channels will be returned to original contour and the areas will be reseeded as prescribed by the BLM.

C. A blooie pit 8' X 10' X 5' deep will be constructed 150' diagonally from the wellbore. A line will be placed on the surface from the wellbore to the burn pit. the pit will be fenced on four sides to protect livestock.

5. LOCATION AND TYPE OF WATER SUPPLY

A. Water for drilling operations will be trucked to the location from a source located in the (SE NW) Sec. 6, T8S, R21E.

6. SOURCE OF CONSTRUCTION MATERIAL

A. All gravel, cement, etc., required for the access road and location will come commercially from the Vernal, Utah area.

7. METHODS FOR HANDLING WASTE DISPOSAL

A. Cuttings will be settled out in the reserve pit. The reserve pit will be lined if soil conditions dictate. It will be fenced on three sides with a woven wire stock fencing. The fourth side of the reserve pit will be fenced after the drilling rig moves off location.

B. Drilling fluids will be retained in the reserve tanks utilizing maximum recirculation during drilling operations. Following drilling operations, the liquid waste will be evaporated or hauled to an approved disposal site, and the pit will be backfilled and returned to the natural contour.

C. In the event fluids are produced, any oil will be retained in tanks until sold. Produced water will go to Battery B to be reinjected into the waterflood system.

D. Sewage will be temporarily held in a insulated fiber glass tank, located in the vicinity of the trailers on the location. The sewage will be transported and disposed of by a licensed disposal company.

E. Trash will be contained in a portable metal container and hauled to an approved disposal site.

8. ANCILLARY FACILITIES

There is no anticipated need for ancillary facilities with the exception of the three trailers on the drilling location.

9. WELLSITE LAYOUT

A. See Location Layout.

B. Burn pit will not be lined.

C. Access to the well pad will be as shown on Topo Map B.

10. PLANS FOR RESTORATION OF SURFACE

A. All surface areas not required for producing operations will be returned to as near original contour as possible to keep possible erosion to a minimum. Any rock encountered in excavation will be disposed of beneath backfill to return the surface to its present condition and provide soil for seed growth.

B. The topsoil will be evenly distributed over the disturbed areas. Reseeding will be performed as directed by the BLM.

C. Pits and any area that could present a hazard to wildlife or livestock will be fenced until backfilled.

D. Any oil accumulation on the pit will be removed or overhead flagging installed as dictated by existing conditions.

E. The well will be completed during 1992. Rehabilitation will commence following completion of the well. If the well is to be abandoned, all disturbed areas will be returned to the natural contour as much as possible.

11. SURFACE OWNERSHIP

A. The access road and well location are on BLM land.

12. OTHER INFORMATION

A. The well is located in hilly and sandy terrain. Vegetation consists of small sagebrush and natural grasses around the location. The soil is a poorly developed, semi-arid, thin topsoil layer over the Uintah Formation.

B. Surface use activities other than the oil well facilities consists of livestock grazing.

C. There are no bodies of water of occupied dwellings near the wellsite.

D. An archeological survey has been conducted on the access road and wellsite and copies sent to the BLM.

13. COMPANY REPRESENTATIVE

Mr. R. A. Hazel
100 Chevron Road
Rangely, Colorado 81648
(303) 675-3700

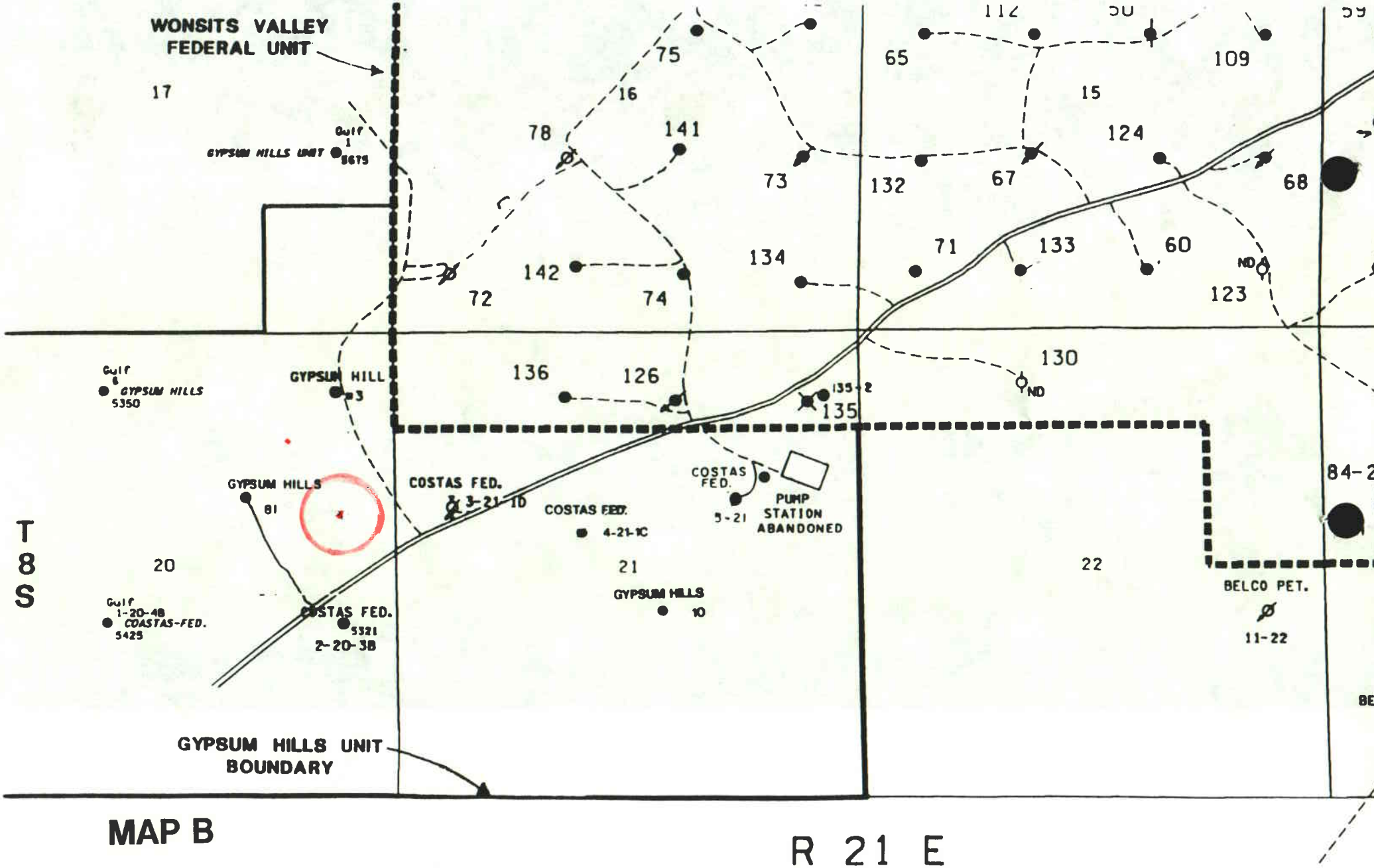
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chevron U.S.A. Production Co. and its contractors

and its subcontractors in conformity with the plan and the terms and conditions under which it is approved.

6/11/90
Date

R. A. Hazel
Unit Drilling Superintendent

Map A - Proposed location and access
Map B - Proposed location and road
Exhibit C - Location layout, cut \ fill


WONSITS VALLEY FEDERAL UNIT
17
Gulf 1 GYPSUM HILLS UNIT 5675
75
16
78
141
73
65
112
109
15
124
132
67
68
72
142
74
134
71
133
60
ND
123
130
ND
Gulf 1 GYPSUM HILLS 5350
GYPSUM HILL #3
136
126
135-2
135
GYPSUM HILLS 81
COSTAS FED. 3-21-1D
COSTAS FED. 4-21-1C
COSTAS FED. 5-21
PUMP STATION ABANDONED
84-2
T 8 S
20
21
22
Gulf 1-20-4B COASTAS-FED. 5425
COSTAS FED. 5321 2-20-3B
GYPSUM HILLS 10
BELCO PET. 11-22
GYPSUM HILLS UNIT BOUNDARY

MAP B

R 21 E

TOR Chevron USA Prod Co N-0010 DATE 6-19-90

L NAME Gypsum Hills #9

C SENE 20 T 8S R 21E COUNTY Uintah

43-047-30304
API NUMBER

Federal (1)
TYPE OF LEASE

ECK OFF:

PLAT ✓ BOND ✓ NEAREST WELL ✓

LEASE ✓ FIELD SLBM ✓ POTASH OR OIL SHALE ✓

OCESSING COMMENTS:
Included in POD 90 approved 3-16-90 pursuant to
Water Permit

PPROVAL LETTER:

PACING: ✓ R649-2-3 ~~R615-2-3~~ Gypsum Hills UNIT ☐ R515-3-2

☐ N/A CAUSE NO. & DATE ☐ R615-3-3

TIPULATIONS:
1- Water Permit

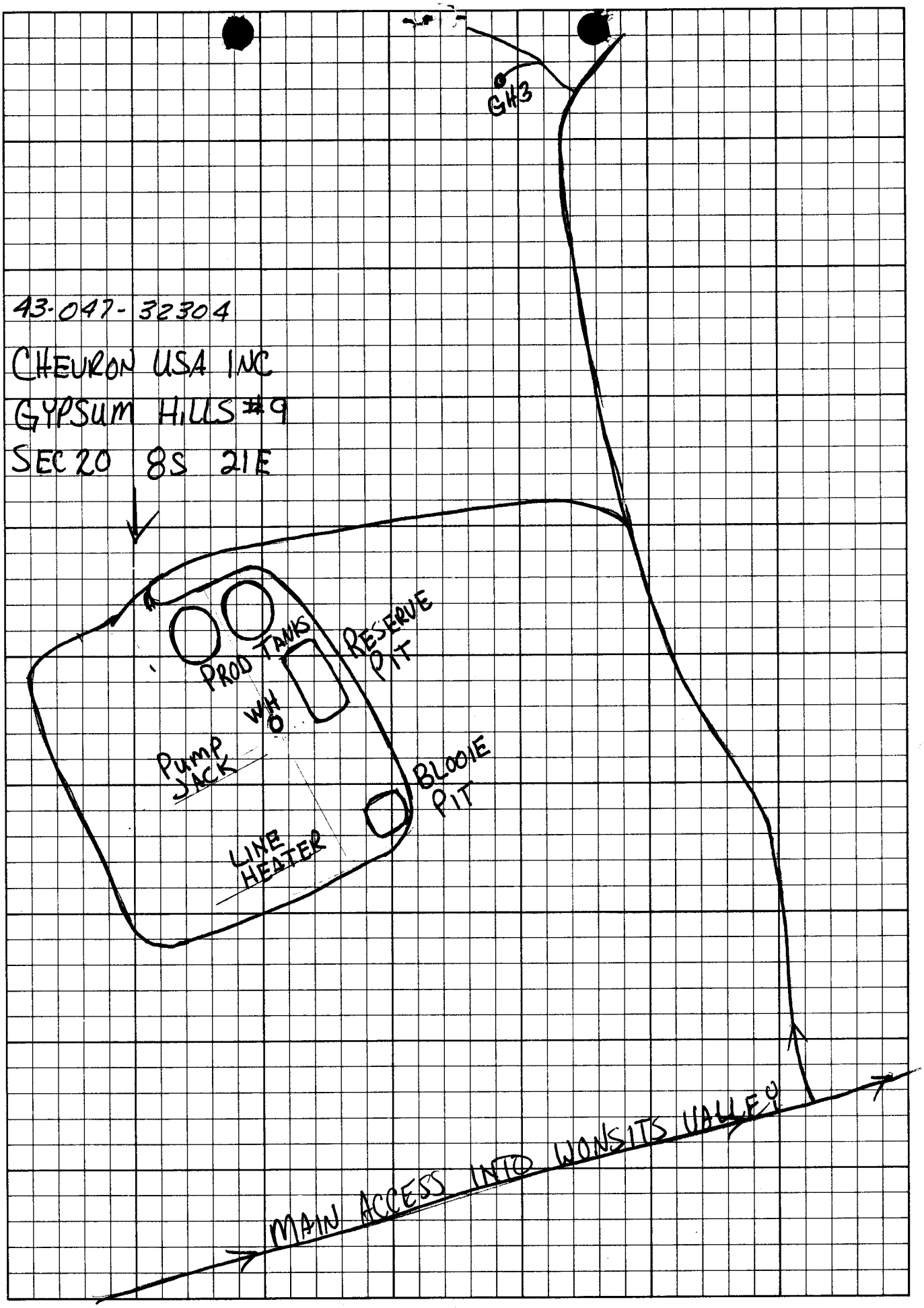
BT

43-047-32304

CHEVRON USA INC

GYPSUM HILLS #9

SEC 20 8S 21E



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

June 22, 1992

Chevron U.S.A. Production Co.
100 Chevron Road
Rangely, Colorado 81648

Gentlemen:

Re: Gypsum Hills #9 Well, 2056 feet from the north line, 663 feet from the east line, SE 1/4 NE 1/4, Section 20, Township 8 South, Range 21 East, Uintah County, Utah

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, and Utah R. 649-3-4, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.

2. Notification within 24 hours after drilling operations commence.

3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.

4. Submittal of the Report of Water Encountered During Drilling, Form 7.

5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32304.

Sincerely,

R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
J.L. Thompson
WOI1

Form 3160-3
(December 1990)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: U-01407A0

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute-Ouray

7. UNIT AGREEMENT NAME: Gypsum Hills Unit

8. FARM OR LEASE NAME, WELL NO.: Gypsum Hills #9

9. API WELL NO.: 43-047-32304

10. FIELD AND POOL, OR WILDCAT: Gypsum Hills, Green River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 20, 8S, 21E

12. COUNTY OR PARISH: Uintah

13. STATE: UT

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Chevron U.S.A. Production Co.

3. ADDRESS AND TELEPHONE NO.: 100 Chevron Rd., Rangely, CO 81648 (303) 675-3700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2056' FNL & 666' FEL (SE NE) Sec. 20
At proposed prod. zone: As above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 6.9 miles northeast of Ouray, UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 666'

16. NO. OF ACRES IN LEASE: 1237.99

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 1311'

19. PROPOSED DEPTH: ±5300' MD & TVD

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 4683'

22. APPROX. DATE WORK WILL START*: August 1, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	K-55 8 5/8"	24#	± 500'	±300 sxs
7 7/8"	K-55 5 1/2"	17#	±5300'	To be determined by logs

Attachments:
Certified Plat
Drilling Program
Chevron Class III BOPE
Geologic Program
Multipoint Surface Use Plan

Completion Procedure to be submitted by Sundry Notice.

RECEIVED
NOV 2 4 1992
DIVISION OF
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED J. D. Howard/ J.D. Howard TITLE Drilling Technologist DATE 6-15-92

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

APPROVED BY Jerry Kenczka TITLE Acting ADM- Minerals DATE 11/23/92

UT080-2M-199

*See Instructions On Reverse Side

UNITED STATES GOVERNMENT

memorandum

DATE: NOV 13 1992

REPLY TO ATTN OF: Superintendent, Uintah & Ouray Agency

SUBJECT: Concurrence letter for Chevron U.S.A. Inc., H62-92-15 Gypsum Hills #9 Section 20 & 21, T8S., R21E., Uintah County, Utah

TO: Bureau of Land Management, Vernal District Office
Attn: Paul Andrews, Area Manager

Based on available information received on October , 1992, we have cleared the proposed locations in the following areas of environmental impact.

YES XX	NO __	Listed Threatened or Endangered Species
YES XX	NO __	Critical Wildlife Habitat
YES XX	NO __	Archeological or Cultural Resources
YES __	NO __	Air Quality Aspects (to be used only if project is in or adjacent to a Class I Area of Attainment)
YES __	NO __	Other (If Necessary)

REMARKS: The necessary surface protection and rehabilitation requirements are as per approved APD.

Per ENVIRONMENTAL ANALYSIS REPORT (copy attached)
#6 MITIGATION STIPULATIONS:

Strict adherance to the mitigations stipulations is required.

RECEIVED
NOV 16 1992

OPTIONAL FORM NO. 10
(REV. 1-80)
GSA FPMR (41 CFR) 101-11.6
5010-114

SITE SPECIFIC
ENVIRONMENTAL ANALYSIS

1.0 PROPOSED ACTION

CHEVRON U.S.A. INC. IS PROPOSING TO DRILL AN OIL WELL.

2.0 ALTERNATIVE ACTIONS

A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.

B. NO ACTION: Under the no action alternative the proposed action would not be implemented.

C. OTHER: _____

3.0 PERMITTEE/LOCATION

A. Permittee CHEVRON U.S.A. INC.
B. Date NOVEMBER 20, 1991
C. Well number GYPSUM #9
D. Right-of-way _____
E. Site location SENE Section 20 T 8S R 21E Meridian SLM

4.0 SITE SPECIFIC SURVEY

A. SITE DESCRIPTION

1. Elevation (feet) _____
2. Annual precipitation (inches) 4-8 INCHES
3. Topography FLAT
4. Soil texture (0 to 6") CLAY LOAM
5. Estimated infiltration rate:
   Slow X Moderate _____ High _____

B. VEGETATION

1. Habitat Type:
   X Semi-desert shrub _____ Upland Pinion/Juniper
   _____ Upland shrub _____ Mountain
   Other: _____

2. Percent Ground Cover 10 %

3. Vegetation: (Estimated % composition)

a. Grasses: 20 %

____	Western wheatgrass	____	Indian ricegrass
____	Needle-and-thread grass	____	Three-awn
____	Idaho fescue	____	Wire grass
____	Prairie junegrass	____	Bluebunch wheatgrass
____	Tall wheatgrass	____	Slender wheatgrass
____	Great Basin wildrye	20	Galleta
____	Kentucky bluegrass	____	Orchard grass
____	Thickspike wheatgrass	____	Squirrel tail
____	Blue gramma	____	Bluegrasses
____	Brome grasses	____	Dropseed
____	Annuals	____	

b. Forbs: 10 %

____	Russian thistle	____	Lupine
____	Globemallow	____	Lamb's quarter
____	Kochia	____	Giant whitetop
____	Astragulus	5	Annuals
____	Indian paintbrush		
5	Halogeton		
____	Ragweed		

c. Shrubs: 70 %

____	Fourwing saltbush	____	Snowberry
____	Black sagebrush	____	Pricklypear
____	Rabbitbrush	40	Greasewood
____	Mountain mahogany	____	Shadscale
____	Serviceberry	____	Horsebrush
____	Bitterbrush	30	Nuttall saltbush
____	Big sagebrush	____	Spiny Horsebrush
____	Yellow Brush	____	Shadscale
		____	Other

d. Trees: 0 %

____	Pinion	____	Douglas fir
____	Juniper	____	Lodgepole pine
____	Cottonwood	____	Engleman spruce
____	Russian olive	____	
____	Tamarix	____	
____	Ponderosa	____	

4. Observed Threatened & Endangered species: NONE

5. Potential For Threatened & Endangered species:

X Slight ____ Moderate ____ High

6. If moderate or high describe: ____

____

____

____

4.2 PRESENT SITE USE

A. USAGE

X	Rangeland	Acres		Irrigable land
	Woodland	Acres	3.12	Non-Irrigable land
	Commercial timber			Floodplain
				Wetland
	Riparian			

Other: _____

4.3 CULTURAL RESOURCES

A. CULTURAL SURVEY

The well site X, access road X, and pipeline right of-way ___ have cleared by a qualified archaeologist/ paleontologist. Name/Organization: SENCO-PHOENIX JOHN A. SENULIS

5.0 ENVIRONMENTAL IMPACTS

A. SURFACE ALTERATIONS

1. Access road 0.36 acres
2. Well site 1.95 acres
3. Right-of-way 0.81 acres
4. Total disturbed 3.12 acres

B. VEGETATION/LANDSCAPE

1. Production loss (AUM's): 0.16/year
2. Permanent scar on landscape: X Yes ___ No
3. Potential impacts to Threatened & Endangered species: ___ Yes X No

C. SOIL/RANGE/WATERSHED

1.	Increased soil erosion, Wind	X	Yes	No
2.	Increased soil erosion, Water	X	Yes	No
4.	Increased salt loading potential	X	Yes	No
5.	Reduced rangeland	X	Yes	No
6.	Reduced irrigated cropland		Yes	X No
7.	Increased run-off in watershed	X	Yes	No
8.	Potential point source water pollution		Yes	X No

9. If answer to (8) is Yes Describe: _____

7. Observed Noxious Weeds: 1) NONE 2) _____

3) _____ 4) _____

C. AFFECTED ENVIRONMENTAL

Initial survey:

1. Surface damages as a result of the initial survey:
   _____ yes __X__ no

2. If answer to (1) is yes describe: _____

_____

4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game
   - X Deer
   - ___ Elk
   - ___ Moose
   - ___ Bear
   - X Antelope
   - ___
   - ___
   - ___
   - ___

2. Small Game
   - X Rabbit
   - ___ Pheasant
   - X Dove
   - ___ Sage grouse
   - ___ Ruffed grouse
   - ___ Blue grouse
   - ___ Chuckar partridge

3. Raptor/Bird
   - ___ Bald eagle
   - X Golden eagle
   - ___ Ferringious hawk
   - ___ Swanson hawk
   - X Redtail hawk
   - ___ Perigrin falcon
   - ___ Prairie falcon
   - X Songbird

4. Other
   - X Horses
   - ___ Cattle
   - ___ Sheep
   - ___
   - ___

5. Non-Game Wildlife
   - X Reptile
   - ___ Prairie dog
   - X Rodent
   - X Coyote
   - X Fox

6. Threatened & Endangered Species

   a. Observed Threatened & Endangered species:
      1) NONE 2) _____ 3) _____

   b. Potential for Threatened & Endangered species:
      __X__ Slight _____ Moderate _____ High

   c. If moderate or high, describe: _____

      _____

      _____

      _____

D. WILDLIFE/THREATENED & ENDANGERED SPECIES

1. Decreased wildlife habitat/grazing ___X___ Yes _____ No
2. Potential increase in wildlife disturbance and poaching ___X___ Yes _____ No
3. Potential impacts to Threatened Endangered species: _____ Yes ___X___ No
4. Potential threat to critical wildlife habitat _____ Yes ___X___ No
   a. If answer to (4) is yes, describe: _____

6.0 MITIGATION STIPULATIONS

A. VEGETATION/LANDSCAPE

1. Landscape disturbance cannot be effectively mitigated at this time. However, before the site is abandoned the company will be required to restore the well pad, access roads, and pipeline rights-of-way to near their original states. The disturbed area will be reseeded with desirable perennial vegetation and the seed will be covered with a weed free organic mulch.

2. Noxious weeds will be controlled on all well sites and rights-of-way. If noxious weeds spread from the well sites or rights-of-way, the company will also be responsible for their control.

B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeding all disturbed areas and by installing the following practices:

a.	Diversion ditches	_____	Yes	___X___	No	_____ feet
b.	Dikes	_____	Yes	___X___	No	_____ feet
c.	Desilting ponds	_____	Yes	___X___	No	_____ number
d.	Drop structure	_____	Yes	___X___	No	_____ number
e.	Gully plugs	_____	Yes	___X___	No	_____ number
f.	High water crossing	_____	Yes	___X___	No	_____ number
g.	Culverts	_____	Yes	___X___	No	_____ number
h.	Water bars	_____	Yes	___X___	No	_____ number
i.	Fencing	___X___	Yes	_____	No	_____ rods
j.	Cattleguards	_____	Yes	___X___	No	_____ number

k. Other, describe: _____

2. Salt and pollution loading of the soil and geological formations will be mitigated by requiring the oil company to:

a. Line reserve pits with impervious synthetic liners
impervious synthetic liners __X__ yes _____ no

b. Use a closed drilling system _____ yes __X__ no
1. Reason(s): _____

c. Use a closed production system __X__ yes _____ no
1. Reason(s): SEE ITEM 8-A

d. Use an unlined emergency pit _____ yes __X__ no
1. Use a synthetic liner __X__ yes _____ no
2. Use a man made container __X__ yes _____ no
3. Reason(s): SEE ITEM 8-A

e. Production water, oil, and other by-products will not be applied to roads or well pads for the control of dust or weeds. Indiscriminate dumping of oil field by-products on tribal lands will not be allowed.

3. When the well is plugged and/or abandoned the gravel and road base hauled in to construct the well pad and access roads will be:

a. Hauled off _____ yes __X__ no
b. Incorporated into the soil __X__ yes _____ no

4. Soil compaction of the well pads and roads will be mitigated by ripping (minimum depth 24").

C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

1. Upon Identification of Threatened & Endangered species, the following measures will be applied: N/A

2. Modifications to surface use will be required to protect the specific wildlife species encountered

D. CULTURAL RESOURCES

All well sites, access roads, and pipeline rights-of-way will be cleared by a qualified archaeologist/paleontologist so that cultural sites will be avoided or salvaged.

7.0 UNAVOIDABLE ADVERSE IMPACTS

A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use pla

B. RELATIONS SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY..

1. Short Term: (Estimated 20 years) A total loss production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.

2. Long Term: Standard policies provide for rehabilitation of the well sites and access roads. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the osion potential, reduces wildlife habitat and grazing, rial soil and geologic pollution resulting from otential to recover, and

_____ Yes _____ N[illegible]life habitat
__X__ Yes _____ No Historical and cultural resources

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

11.0 RECOMMENDATIONS

A. APPROVAL/DISAPPROVAL

We recommend approval __X__ disapproval _____ of the proposed action as outlined in item 1.0 above.

Dale A. Hamblen
Representative - BIA Land Operations,
Uintah and Ouray Agency

12.0 REVIEWING OFFICIAL

A. CONCURRENCE

We concur with the approval __✓__ disapproval _____ of the proposed action as outlined in item 1.0 above.

Nancy Ouzo 11/4/92
Environmental Coordinator,
Uintah and Ouray Agency

13.0 DECLARATION

A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

Superintendent,
Uintah and Ouray Agency

14.0 CONSULTATION

A. REPRESENTATIVES/ORGANIZATION

1. BRENT SAXTON-CHEVRON U.S.A. INC.
2. GERALD AHRENS-CHEVRON U.S.A INC.
3. BYRAN TOLMAN-BLM
4. KEVIN IGNACIO-UTEM
5. DALE HANBERG-BIA
6.
7.
8.
9.
10.

WELL LOCATION INFORMATION

Company/Operator Chevron U.S.A.

API Number 43-047-32304

Well Name & Number Gypsum Hills #9

Lease Number U-0140740

Location SENE Sec. 20 T. 8S. R. 21E.

Surface Ownership Ute Tribe

Date NOS Received 11/14/91

Date APD Received 6/18/92

NOTIFICATION REQUIREMENTS

Location Construction	-	at least forty-eight (48) hours prior to construction of location and access roads.
Location Completion	-	prior to moving on the drilling rig.
Spud Notice	-	at least twenty-four (24) hours prior to spudding the well.
Casing String and Cementing	-	at least twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related Equipment Tests	-	at least twenty-four (24) hours prior to initiating pressure tests.
First Production Notice	-	within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Planned Access Roads--describe the following and provide a map of suitable scale indicating all necessary access roads (permanent and temporary) to constructed or reconstructed, showing the access road will be built up with pit run materials hauled in from an outside source.

All travel will be confined to existing access road rights-of-way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

A closed production system will be used. No disposal or emergency pits will be allowed..

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

Burning will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

All reserve pits will be lined with plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit.)

Reserve Pits will be constructed so as not to leak, break, or allow discharge of liquids.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

Well Site Layout

It is not necessary to strip the topsoil on this location. Topsoil should be left in place and pit run material should be hauled in to build up the pad enough to allow water to drain around the location.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

> 39-inch net wire shall be used with at least one strand of barbed wire on tip of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the tip of the entire fence).
>
> The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
>
> Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Plans for Restoration of Surface

a. Producing Location

Immediately upon will completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.

Contact appropriate surface management agency for required seed mixture.

b. Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attach the appropriate surface rehabilitation conditions of approval.

On BIA administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment. The seeded area will be covered with a weed free organic mulch.

Surface Ownership

Access Road: Ute Tribal
Location: Ute Tribal

Other Additional Information

a. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site con be used (assuming in situation, preservation is not necessary); and

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

b. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals. If noxious weeds spread from the well site or ROW, the company will also be responsible for their control.

c. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way Authorization". All operators, subcontractors, vendors and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved rights-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uinta and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products and (e) only authorized personnel permitted.

All well site locations on the Uinta and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter-quarter section, the section, township, and range).

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Chevron U.S.A., Inc. Well No. Gypsum Hills #9

Location SENE, Sec. 20, T8S, R21E Lease No. U - 0140740

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

   Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

   All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

   The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 3M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

   Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

   The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at ± 3,300 ft.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to ± 3,100 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka Petroleum Engineer	(801) 781-1190
Ed Forsman Petroleum Engineer	(801) 789-7077
BLM FAX Machine	(801) 789-3634

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CHEVRON USA 43-047-32304

WELL NAME: GYPSUM HILLS # 9

Section 20 Township 8S Range 21E County UINTAH

Drilling Contractor _____

Rig # _____

SPUDDED: Date 1-3-93

Time 3:00 PM

How DRY HOLE

Drilling will commence _____

Reported by DENNIS-DOGM

Telephone # _____

Date 1/4/93 SIGNED JLT

Form 3160-5
December 1989.

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

Form Approved
Budget Bureau No.1004-8135

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

5. Lease Designation and Serial No.
U-0140740

6. If Indian, Allotte or Tribe Name
Ute-Ouray

SUBMIT IN TRIPLICATE

7. If Unit or CA. Agreement Designation
Gypsum Hills Unit

1. Type of Well
OIL WELL [X] GAS WELL [ ] OTHER

8. Well Name and No.
Gypsum Hills #9

2. Name of Operator
CHEVRON U.S.A. PRODUCTION INC

9. API Well No.
43-047-32304

3. Address and Telephone No.
PO BOX 4876 Attn: VERLAND GRANBERRY
HOUSTON, TX. 77210 (713) 754-5074

10. Field and Pool, or Exploratory Area
Gypsum Hills, Green River
GREEN RIVER

4. Location of Well (Footage, Sec.,T.,R.,M., or Survey Description)
2056' FNL, 663' FEL
SEC. 20, T8S, R21E

11. County or Parish, State
UINTAH
UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[X] Altering Casing	[ ] Conversion to Injection
	[ ] Other	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all martkers and zones pertinent to this work.)*
THE PURPOSE OF THIS SUNDRY IS REQUEST CHANGE IN SURFACE CASING DESIGN.

1. WE REQUEST APPROVAL TO SET +/-400' OF 8-5/8" K-55 24 #/FT SURFACE CASING
TO BE CEMENTED WITH +/-250 SACKS OF 15.6 PPG YIELD 1.18 CU FT PER SACK CEMENT.

NOTE: VERBAL APPROVAL WAS GIVEN BY ED FORSMAN W/ BLM VERNAL 12/30/1992.

RECEIVED
JAN 07 1993
DIVISION OF
OIL, GAS & MINING

4-BLM/UTAH/RED W/2-DRLG

14. I hereby certify that the foregoing is true and correct
Signed Verland Granberry Title DRILLING TECHNICAL ASSISTANT Date 12-31-1992

(This space for State office use)
Approved by _____ Title _____ Date _____
Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitous or fraudulent statement or restitutions as to any matter within its jurisdiction.

Form 3160-5
December 1989.

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

Form Approved
Budget Bureau No.1004-8135

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

5. Lease Designation and Serial No.
U-0140740

6. If Indian, Allotte or Tribe Name
Ute-Ouray

SUBMIT IN TRIPLICATE

7. If Unit or CA. Agreement Designation
Gypsum Hills Unit

1. Type of Well
OIL WELL [X] GAS WELL [ ] OTHER

8. Well Name and No.
Gypsum Hills #9

2. Name of Operator
CHEVRON U.S.A. PRODUCTION INC

9. API Well No.
43-047-32304

3. Address and Telephone No.
PO BOX 4876 Attn: VERLAND GRANBERRY
HOUSTON, TX. 77210 (713) 754-5074

10. Field and Pool, or Exploratory Area
Gypsum Hills, Green River
GREEN RIVER

4. Location of Well (Footage, Sec.,T.,R.,M., or Survey Description)
2056' FNL, 663' FEL
SEC. 20, T8S, R21E

11. County or Parish, State
UINTAH
UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all martkers and zones pertinent to this work.)*
THE PURPOSE OF THIS SUNDRY IS TO REPORT ON SETTING SURFACE CASING.

1. DRILLED TO 408' W/ 12-1/4" BIT USING AIR. (01/06/1993)

2. RAN 398' 8-5/8" 24#/FT K-55 CASING W/ CENTRALIZERS 10' ABOVE SHOE, 1 ON FIRST COLLAR, AND 1 ON THIRD COLLAR. (01/07/1993)

3. CEMENTED W/ 265 SACKS OF CLASS G CEMENT W/2% CaCl & .25 LB/SACK FLOCELE MIXED AT 15.6 PPG. CIRC 120 SACKS TO SURFACE. (01/07/1993)

4. RIG DOWN MOVE OUT TOP HOLE RIG. (01/08/1993)

RECEIVED
JAN 11 1993
DIVISION OF
OIL GAS & MINING

4-BLM/UTAH/RED W/2-DRLG

14. I hereby certify that the foregoing is true and correct
Signed Verland Granberry Title DRILLING TECHNICAL ASSISTANT Date 01/08/1993

(This space for State office use)
Approved by _____ Title _____ Date _____
Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitous or fraudulent statement or restitutions as to any matter within its jurisdiction.

Form 3160-5
December 1989.

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

Form Approved
Budget Bureau No.1004-8135

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.

5. Lease Designation and Serial No.
U-0140740

6. If Indian, Allotte or Tribe Name
Ute-Ouray

SUBMIT IN TRIPLICATE

7. If Unit or CA. Agreement Designation
Gypsum Hills Unit

1. Type of Well
OIL WELL [X] GAS WELL [ ] OTHER

8. Well Name and No.
Gypsum Hills #9

2. Name of Operator
CHEVRON U.S.A. PRODUCTION INC

9. API Well No.
43-047-32304

3. Address and Telephone No.
PO BOX 4876 Attn: VERLAND GRANBERRY
HOUSTON, TX. 77210 (713) 754-5074

10. Field and Pool, or Exploratory Area
Gypsum Hills, Green River
GREEN RIVER

4. Location of Well (Footage, Sec.,T.,R.,M., or Survey Description)
2056' FNL, 663' FEL
SEC. 20, T8S, R21E

11. County or Parish, State
UINTAH
UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all martkers and zones pertinent to this work.)*
THE PURPOSE OF THIS SUNDRY IS TO NOTIFY YOU THAT WE SPUDDED THE WELL.

THE WELL WAS SPUDDED AT 1500 HOURS 01/03/1993 USING TOP HOLE'S RIG.

NOTE: BLM WAS NOTIFIED VERBALLY OF SPUD 01/02/1993.

NOTE: DAVIS INGRAM OF UTAH DIVISION OF OIL, GAS AND MINING WAS NOTIFIED VERBALLY OF SPUD 01/04/1993.

RECEIVED
JAN 25 1993
DIVISION OF
OIL, GAS & MINING

4-BLM/UTAH/RED W/2-DRLG

14. I hereby certify that the foregoing is true and correct
Signed Verland Granberry Title DRILLING TECHNICAL ASSISTANT Date 1-22-1993

(This space for State office use)
Approved by _____ Title _____ Date _____
Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitous or fraudulent statement or restitutions as to any matter within its jurisdiction.

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE and WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81505

COMPANY CHEVRON USA

WELL NO. GYPSUM HILLS #9

LOCATION S20 T8S R21E Uinta Co.,UTAH

ZONE OF INTEREST NO. 1

INTERVAL: From 5199' To 5208'

DRILL RATE: Abv 4min/' Thru 2min/' Below 4.5min/'

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C_1	C_2	C_3	C_4	C_5	OTHER
Before	80	100	100	50	tr		
During	1040	80000	11900	6400	3100	tr	
After	270	32000	2000	1700	200		

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☐

FLUO: Mineral ☐ Even ☒ Spotty ☐
None ☐ % in total sample 90%
Poor ☐
Fair ☐ % in show lithology 100%
Good ☒ COLOR: gold yellow

CUT: None ☐ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☒ Fast ☒
COLOR: yellow

STAIN: None ☐ Poor ☐ Fair ☒ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☒ Lt. ☐ Dk. ☒

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind intercrystalline,fos

LITHOLOGY LS lt-dkbrn tan gybrn,f-crpxl,sbblky-plty,frm,foss ip,shly ip

SAMPLE QUALITY adequate

NOTIFIED Mary Schuh @ 3:15 am HRS. DATE: 1/26/93

REMARKS

ZONE DESCRIBED BY William Monroe

COLORADO PRINTING CO. GRAND JUNCTION, COLO.

ROCKY MOUNTAIN GEO-ENGINEERING CO. (303) 243-3044

BIT RECORD -- FT PER/DAY -- DEVIATION

WELL NAME:	GYPSUM HILLS #9	ELEVATION:	GL: 4683' KB: 4697'
COMPANY:	CHEVRON USA	SECTION:	20, T8S, R21E
CONTRACTOR:	CIRCLE L	COUNTY & STATE:	UINTAH, UTAH
SPUD DATE:	1/17/93	T.D. DATE:	43-047-32304

BIT RECORD

RUN	SIZE	MAKE	TYPE	IN/OUT	FTG	HOURS	FT/HR
1RR	7-7/8	STC	F3H	1615	1203	23.5	51.2
2	7-7/8	REED	HD53A	3942	2328	70.5	33.0
3	7-7/8	SMITH	F3H	5378	1436	72.5	19.8

FT PER/DAY

DATE	DEPTH	FT
1/17/93	418	0
1/18	418	1018
1/19	1436	839
1/20	2275	415
1/21	2690	521
1/22	3211	684
1/23	3895	426
1/24	4321	456
1/25	4777	374
1/26	5151	227
1/27	5378	---
1/28	5378	---

DEVIATION

DEPTH	DEV.(DEG)
407	1
898	0.5
1389	0.75
1803	0.25
2381	1.75
2567	3.5
2663	3.25
2754	2.5
2848	2
3094	1.25
3622	1.5
3897	1.5
4395	1
4895	1.5

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

January 29, 1993

Chevron U.S.A. Inc.
P. O. Box J, Section 975
Concord, California 94524

Gentlemen:

Re: Request for Completed Entity Action Form
Gypsum Hills 9 - SENE Sec. 20, T. 8S, R. 21E - Uintah County, Utah

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Gypsum Hills 9, API Number 43-047-32304, on January 1, 1993. At this time, we have not received an Entity Action Form for this well.

Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by February 8, 1993.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call Lisha Cordova at the above number.

Sincerely,

Don Staley

Don Staley
Administrative Supervisor

lec
Enclosure
cc: R. J. Firth
File

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
U-0140740

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Gypsum Hills (SR) Unit

1. Type of Well
Oil ☒ Well Gas ☐ Well ☐ Other

8. Well Name and No.
GHU #9

2. Name of Operator
Chevron U.S.A. Inc.

9. API Well No.
43-047-32304

3. Address and Telephone No.
P.O. Box 455, Vernal, Utah 84078 (801) 789-2442

10. Field and Pool, or Exploratory Area
Wonsits Valley-Grn. River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2056' FNL, 663' FEL, SEC. 20-T8S-R21E

11. County or Parish, State
Uintah, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Completion	☐ Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

We propose to complete the subject well as follows:

1. **Drill/clean out to PBTD of +/-5310'.**
2. **Run GR-CBL-CCL from PBTD to surface casing shoe.**
3. **Perforate the G_1 Lime 5200-5210' (HLS GR-Density-Neutron, 1/27/93) with 4 JSPF.**
4. **Set packer at +/-5150' and acid fracture using 20000 gal. 28% HCl. Flow/swab treatment volume back.**
5. **Equip to produce (anticipate using rod pumping equipment).**

RECEIVED
FEB 0 4 1993
DIVISION OF
OIL GAS & MINING

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING
DATE: 2-5-93
BY: JRM Matthews

14. I hereby certify that the foregoing is true and correct

Signed [signature] Title Petroleum Engineer Date 2/1/93

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

☼See instruction on Reverse Side

FVLARB-6.BLM (JRL #2)

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-0140740

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Gypsum Hills Unit

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
GHU #9

2. Name of Operator
Chevron U.S.A. Inc.

9. API Well No.
43-047-32304

3. Address and Telephone No.
P.O. Box 455, Vernal, Utah 84078 (801) 789-2442

10. Field and Pool, or Exploratory Area
Gypsum Hills-Grn. River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2056' FNL, 663' FEL, S20-T8S-R21E

11. County or Parish, State
Uintah, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other 1st. Prod.	☐ Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Subject well was placed on production via rod pump on 2/13/93 at an initial rate of 350 BOPD, 51 BWPD and 0 MCF/D.

RECEIVED
FEB 18 1993
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [signature] Title Petroleum Engineer Date 2/15/93

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

FVLARB-5.BLM (JRL #2)

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

RECEIVED
MAR 0 1 1993
DIVISION OF OIL, GAS & MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-0140740

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME: Gypsum Hills Unit

8. FARM OR LEASE NAME: Gypsum Hills

2. NAME OF OPERATOR: Chevron U.S.A. Production Co.

9. WELL NO.: #9

3. ADDRESS OF OPERATOR: P. O. Box 455, Vernal, UT 84078 (801) 789-2442

10. FIELD AND POOL, OR WILDCAT: Gypsum Hills-Green River

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2056' FNL, 663' FEL
At top prod. interval reported below: Same
At total depth: Same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 20-T8S-R21E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-047-32304	11/22/92	Uintah	UT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1/3/93	1/12/93	2/13/93	4697' KB	4683'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5378'	5310'		→	All	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5200-5210' G_1 Lime, Lower Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-Density-Neutron,-DIL-Sonic-CAL,GR-CCL-CBL 2-3-93 mud LOG

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	411'	12 1/4"	265 sx Class G	
5 1/2"	17	5373'	7 7/8"	520 sx Premium Plus AG & 120 sx 50-50 Pozmix	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5263'	

31. PERFORATION RECORD (*Interval, size and number*): 5200-5210' 4 JSPF, 90°, 19.5 gr.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5200-5210'	20000 gal. 28% HCL

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
2/13/93	Rod Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2/15/93	24			350	TSTM	51	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
			350	TSTM	51	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY: G. F. Beaman

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Petroleum Engineer DATE 2/25/93

*(See Instructions and Spaces for Additional Data on Reverse Side)

e 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the ..ted States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Uinta	Surface	2250'	Interbedded shale, sandstone & siltstone, occ. limestone, occ. blobs of oil
Green River	2250'		Interbedded shale, siltstone, oil shale, sandstone & limestone. Blebs of oil are common Porous Interval 5278-96' ostracodal grainstone, sandy i.p. oil stained, good strmg cut

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Mahogany Ledge	2673'	
Parachute Creek	4332'	
G1 Lime	5278'	

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Chevron U.S.A. Production Co.

ADDRESS P. O. Box 455
Vernal, UT 84078

OPERATOR ACCT. NO. H0210

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11467	43-047-32304	Gypsum Hills 9	SENE	20	8S	21E	Uintah	01/03/93	

WELL 1 COMMENTS: 40 acre development well producing to individual tank battery.
Entities added 3-24-93. Lec

B	5265	→	43-047-32307	Wonsits Valley Fed. Unit 130	NWNW	22	8S	21E	Uintah	01/21/93	

WELL 2 COMMENTS: 40 acre development well producing to central production facilities.

B	5265	→	43-047-32102	Wonsits Valley Fed. Unit 201	SWNE	15	8S	21E	Uintah	12/20/92	

WELL 3 COMMENTS: 20 acre infill well producing to central production facilities.

B	5265	→	43-047-32308	Wonsits Valley Fed. Unit 202	NWSW	15	8S	21E	Uintah	12/12/92	

WELL 4 COMMENTS: 20 acre infill well producing to central production facilities.

WELL 5 COMMENTS:

OIL AND GAS

RJF	
1 FRM	
SLS	
GLH	
DTS	
2 VLC	
3 MICROFILM	
4 FILE	

ACTION CODES (See instructions on back of form)
A - Establish new entity for new well (singl
B - Add new well to existing entity (group
C - Re-assign well from one existing entity
D - Re-assign well from one existing entity
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Acl

(3/89)

Dana Baugh
Signature
Operations Assistant 3
Title
Date
Phone No. 801.789-2442 Ext-3

Hang in There!!!

The Fax is on it's way!

TO: Cisha Cordova

CO: _____

FAX NO. (801) 359-3940 NO. OF PAGES FOLLOWING: 1

FROM: Lana Rough

CO: CUSA

FAX NO. 719-6732 TELEPHONE NO: 719-2442 Ext. 302

Chevron U.S.A. Inc.
P.O. Box 455, Vernal, UT 84078 • Phone (801) 789-2442

March 22, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Lisha Cordova

Dear Lisha:

Per your letter dated January 29, 1993, please find the entity action form attached for the following wells:

Gypsum Hills 9
Wonsits Valley Federal Unit 130
Wonsits Valley Federal Unit 201
Wonsits Valley Federal Unit 202

If you have any questions or need further assistance, please contact me at (801) 789-2442 Ext. 302.

Sincerely,

Lana Rough

Lana Rough
Operations Assistant

llr

enclosure

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Chevron U.S.A. Production Co.

ADDRESS P. O. Box 455
Vernal, UT 84078

OPERATOR ACCT. NO. N0210

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11467	43-047-32304	Gypsum Hills 9	SENE	20	8S	21E	Uintah	01/03/93	
WELL 1 COMMENTS: 40 acre development well producing to individual tank battery. Entities added 3-24-93. Lec											
B	5265	→	43-047-32307	Wonsits Valley Fed. Unit 130	NWNW	22	8S	21E	Uintah	01/21/93	
WELL 2 COMMENTS: 40 acre development well producing to central production facilities.											
B	5265	→	43-047-32102	Wonsits Valley Fed. Unit 201	SWNE	15	8S	21E	Uintah	12/20/92	
WELL 3 COMMENTS: 20 acre infill well producing to central production facilities.											
B	5265	→	43-047-32308	Wonsits Valley Fed. Unit 202	NWSW	15	8S	21E	Uintah	12/12/92	
WELL 4 COMMENTS: 20 acre infill well producing to central production facilities.											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

RECEIVED
MAR 24 1993
DIVISION OF
OIL GAS & MINING

Dana Hough
Signature
Operations Assistant 3/22/93
Title Date
Phone No. (801) 789-2442 Ext. 302

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
Various

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Gypsum Hills Unit

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
See Below

2. Name of Operator
Chevron U.S.A. Inc.

9. API Well No.
43-047-32304

3. Address and Telephone No.
P.O. Box 455, Vernal, Utah 84078 (801) 789-2442

10. Field and Pool, or Exploratory Area
Wonsits Valley-Grn. River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

11. County or Parish, State
Uintah, Utah

RECEIVED
MAR 26 1993
DIVISION OF
OIL GAS & MINING

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other **Install Anode Beds**	☐ Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

We propose to install casing cathodic protection anode beds as follows:

1. Drill 8" diameter holes 250' deep. Each hole will be loaded with 8-2.2" x 7' Anotec anodes and partially back filled with coke breeze.
2. Dig a 6" x 12" ditch to connect the anodes to the generator.

Proposed anode bed locations:

GH #9 **2056' FNL, 663' FEL, SEC. 20-T8S-R21E**
GH #10 **2147' FSL, 2247 FEL, SEC. 21-T8S-R21E**

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING
DATE: 3-30-93
BY: JR Matthews

14. I hereby certify that the foregoing is true and correct
Signed Dana Baugh Title Oper. Assistant Date 03/23/93

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____
Conditions of approval, if any:

Memorandum GO-144

To Lisha

From Susanne Paclebar (510) 827-7393

4-19 19 94

Subject: State Entity Number for Unit

Our File: #940425 Updated file

Your File:

Enclosed is a list of wells that are included in the unitized 'Gypsum Hills Unit.' I believe I've highlighted all the leases involved, with exception of API well #4304731932 which was not on the list.

I'd prefer entity #5355, ~~but~~ if it will work. Also we have it in our system as Gypsum Hills Field.

Please let me know when this is complete. I have informed the person who prepares the production/distribution reports of the forthcoming changes.

Call me if you have any questions.

Thank you!

Susanne

When reply is required, forward original and one copy.

GO-144 (OS-6-86)
Printed in U.S.A.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ED OSWALD
CHEVRON USA INC
PO BOX J SEC 975
CONCORD CA 94524

UTAH ACCOUNT NUMBER: N0210

REPORT PERIOD (MONTH/YEAR): 8 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
RWU 219 (44-21C) 4304730149	05671	07S 24E 21	GRRV					
RWU 250 (41-29C) 4304730391	05671	07S 24E 29	MVRD					
UTAH STATE 1 4304715128	05878	07S 24E 36	GRRV					
STAGECOACH FEDERAL 23-21 4304731541	10005	08S 21E 21	GRRV					
BRENNAN FED 3 4304715419	10750	07S 21E 17	GRRV					
COSTAS FEDERAL 4-21-1C 4304731826	10826	08S 21E 21	GRRV					
COSTAS FEDERAL #5-21-2C 4304731827	10831	08S 21E 21	GRRV					
WVU 118 4304730596	10890	08S 21E 13	WSMVD					
GYPSUM HILLS 9 4304732304	11467	08S 21E 20	GRRV					
Gypsum Hills 10 4304732306	11467	08S 21E 21	DRL					
[illegible] 4304731807	5368	8S 21E 21	GRRV	W/W				
[illegible] 4304731932	5355	8S 21E 20	GRRV	W/W				
					TOTALS			

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____

Name and Signature: _____ Telephone Number: _____

6/93)

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ED OSWALD
CHEVRON USA INC
PO BOX J SEC 975
CONCORD CA 94524

UTAH ACCOUNT NUMBER: N0210

REPORT PERIOD (MONTH/YEAR): 8 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
COSTAS FED 1-20-4B 4304731006	05310	08S 21E 20	GRRV					
COSTAS FED 2-20-3B 4304731086	05315	08S 21E 20	GRRV					
GYPSUM HILLS 3 4304720002	05355	08S 21E 20	GRRV					
KAYE STATE 1-16 4304730609	05395	10S 23E 16	WSMVD					
LEOTA FED 1 4304730879	05420	07S 21E 34	WSTC					
MORGAN ST 1-36 4304730600	05445	09S 21E 36	WSTC					
WHITON FED 1-19-3C 4304731065	05660	08S 21E 19	GRRV					
RWU 1 (41-26B) 4304715135	05670	07S 23E 26	GRRV					
RWU 3 (34-23B) 4304715136	05670	07S 23E 23	GRRV					
RWU 4 (41-22B) 4304715137	05670	07S 23E 22	GRRV					
RWU 5 (41-23B) 4304715138	05670	07S 23E 23	GRRV					
RWU 8 (32-22B) 4304715139	05670	07S 23E 22	GRRV					
RWU 9 (43-23B) 4304715140	05670	07S 23E 23	GRRV					
					TOTALS			

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____

Name and Signature: _____ Telephone Number: _____

6/93)

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

ED OSWALD
CHEVRON USA INC
PO BOX J SEC 975
CONCORD CA 94524

UTAH ACCOUNT NUMBER: N0210

REPORT PERIOD (MONTH/YEAR): 8 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
RANGE CREEK FED #1 4301530113	00480	18S 16E 6	CDMTN					
STAGECOACH U 10-23 4304720163	04925	08S 21E 23	GRRV					
GYPSUM HILLS 4 4304730028	05250	08S 21E 19	GRRV					
GYPSUM HILLS 6 4304730099	05251	08S 21E 20	GRRV					
BRENNAN FED 1 4304715417	05260	07S 20E 13	GR-WS					
BRENNAN FED 6 4304730109	05261	07S 21E 19	GRRV					
WVU 6 4304715437	05265	08S 22E 7	GRRV					
WVU 14 4304715445	05265	08S 21E 12	GRRV					
WVU 24 4304715454	05265	08S 21E 1	GRRV					
WVU 34 4304715462	05265	08S 21E 11	GRRV					
WVU 35 4304715463	05265	08S 21E 14	GRRV					
WVU 39 4304715467	05265	08S 21E 11	GRRV					
WVU 42 4304715470	05265	08S 21E 11	GRRV					
					TOTALS			

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____

Name and Signature: _____ Telephone Number: _____

6/93)

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
   Oil Well [ ] Gas Well [ ] Other [X] MULTIPLE WELLS LIST ATTACHED
2. Name of Operator
   CHEVRON U.S.A. INC.
3. Address and Telephone No.
   11002 E. 17500 S. VERNAL, UT 84078-8526 **(801) 781-4300**
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.
6. If Indian, Allottee or Tribe Name
   N/A
7. If Unit or CA, Agreement Designation
   GYPSUM HILLS UNIT
   UTU 67951A
8. Well Name and No.
9. API Well No.
10. Field and Pool, or Exploratory Area
    Gypsum Hills Unit
11. County or Parish, State
    UINTAH, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
	[ ] Recompletion	[ ] New Construction
[X] Subsequent Report	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
[ ] Final Abandonment Notice	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **CHANGE OF OPERATOR**	[ ] Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

As of January 1, 2000 Chevron U.S.A. Inc. resigns as Operator of the Gypsum Hills Unit.
The Unit number is UTU 76951A effective April 1, 1991.

The successor operator under the Unit Agreement will be
Shenandoah Energy Inc.
475 17th Street, Suite 1000
Denver, CO 80202

Agreed and accepted to this 29th day of December, 1999

Shenandoah Energy Inc.
By: Mitchell L. Solich
Mitchell L. Solich
President

RECEIVED
DEC 30 1999
DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Signed A. E. Wacker A. E. Wacker Title **Assistant Secretary** Date **12/29/1999**

(This space for Federal or State office use)

Approved by: Title Date

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See instruction on Reverse Side**

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

RECEIVED
FEB 07 2000
DIVISION OF
OIL, GAS AND MINING

IN REPLY REFER TO
UT-931

February 4, 2000

Shenandoah Energy Inc.
Attn: Rae Cusimano
475 17th Street, Suite 1000
Denver, Colorado 80202

Re: Gypsum Hills (Green River) Unit
Uintah County, Utah

Gentlemen:

On December 30, 1999, we received an indenture whereby Chevron U.S.A. Inc. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Gypsum Hills (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 4, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Gypsum Hills (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Gypsum Hills (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

cc: Chevron U.S.A. Inc.

bcc: Field Manager - Vernal (w/enclosure)
Division of Oil, Gas & Mining
Minerals Adjudication Group U-932
File - Gypsum Hills (Green River) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

UT931:TAThompson:tt:2/4/00

Well	Lease	API Number	Status	Type
COSTAS FEDERAL 1-20-4B	U-0140740	43-047-31006	A	INJ
COSTAS FEDERAL 2-20-3B	U-0140740	43-047-31066	A	INJ
COSTAS FEDERAL 3-21-1D	U-0804	43-047-31604	A	INJ
GYPSUM HILLS UNIT 10	U-025960	43-047-32306	A	INJ
GYPSUM HILLS UNIT 15	U-0140740	43-047-32648	A	INJ
GYPSUM HILLS UNIT 17	U-0140740	43-047-32649	A	INJ
GYPSUM HILLS UNIT 3	U-0140740	43-047-20002	A	INJ
GYPSUM HILLS UNIT 6	U-0140740	43-047-30099	A	INJ
GYPSUM HILLS UNIT 8-1 (SRU)	U-0140740	43-047-31932	A	INJ
GYPSUM HILLS UNIT 12	U-0140740	43-047-32458	A	INJ
COSTAS FEDERAL 4-21-1C	U-0804	43-047-31826	A	OIL
COSTAS FEDERAL 5-21-2C	U-0804	43-047-31827	A	OIL
GYPSUM HILLS 16	U-0140740	43-047-32675	A	OIL
GYPSUM HILLS UNIT 18	U-014740	43-047-32650	A	OIL
GYPSUM HILLS UNIT 4	U-0140740	43-047-30028	A	OIL
GYPSUM HILLS UNIT 9	U-0140740	43-047-32304	A	OIL
GYPSUM HILLS UNIT 11	U-0140740	43-047-32459	A	OIL
GYPSUM HILLS UNIT 13	U-0140740	43-047-32460	A	OIL
GYPSUM HILLS UNIT 14	U-0140740	43-047-32647	A	OIL
GYPSUM HILLS UNIT 19	U-0140740	43-047-32651	A	OIL
GYPSUM HILLS UNIT 20	U-0140740	43-047-32652	A	OIL
WHITON-FEDERAL 1-19-3C	U-0140740	43-047-31065	A	OIL
STAGECOACH 23-21	U-025960	43-047-31541	A	OIL
GYPSUM HILLS UNIT 21	U-0933	43-047-32692	A	GAS
GYPSUM HILLS 22 WG	U-0804	43-047-32818	A	GAS

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING	
[redacted]	4-KAS
2. CDW	5-[illegible]
3. JLT	6-FILE

Enter date after each listed item is completed

X **Change of Operator (Well Sold)** — Designation of Agent

Operator Name Change (Only) — Merger

The operator of the well(s) listed below has changed, effective: **01/01/2000**

FROM: (Old Operator):	**TO:** (New Operator):
CHEVRON USA INC	SHENANDOAH ENERGY INC
Address: 11002 E. 17500 S.	Address: 11002 E. 17500 S.
VERNAL, UT 84078-8526	VERNAL, UT 84078
Phone: 1-(435)-781-4300	Phone: 1-(435)-781-4300
Account No. N0210	Account No. N4235

CA No. **Unit:** **GYPSUM HILLS**

WELL(S)

NAME	API	ENTITY	SECTION	TOWNSHIP	RANGE	LEASE
GYPSUM HILLS UNIT 4	43-047-30028	5355	19	08S	21E	FEDERAL
WHITON FEDERAL 1-19-3C	43-047-31065	5355	19	08S	21E	FEDERAL
GYPSUM HILLS 16	43-047-32675	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 18	43-047-32650	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 9	43-047-32304	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 11	43-047-32459	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 14	43-047-32647	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 19	43-047-32651	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 20	43-047-32652	5355	20	08S	21E	FEDERAL
COSTAS FEDERAL 4-21-1C	43-047-31826	5355	21	08S	21E	FEDERAL
COSTAS FEDERAL 5-21-2C	43-047-31827	5355	21	08S	21E	FEDERAL
STAGECOACH 23-21	43-047-31541	5355	21	08S	21E	FEDERAL
GYPSUM HILLS UNIT 21	43-047-32692	5355	21	08S	21E	FEDERAL
GYPSUM HILLS UNIT 22 WG	43-047-32818	5355	22	08S	21E	FEDERAL

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/30/1999
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 08/09/2000
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 08/15/2000

4. Is the new operator registered in the State of Utah: YES Business Number: 224885

5. If **NO**, the operator was contacted contacted on: _____

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 02/04/2000

7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 02/04/2000

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC"** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 08/16/2000

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 08/16/2000

2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 08/16/2000

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: _____

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
   The Division sent response by letter on: N/A

3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: _____

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 3.5.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS:

QUESTAR

Questar Exploration and Production Company
Independence Plaza
1050 17th Street, Suite 500
Denver, CO 80265
Tel 303 672 6900 • Fax 303 294 9632

Denver Division

May 28, 2003

Division of Oil, Gas, & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Attention: John Baza/Jim Thompson

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,

Frank Nielsen
Division Landman

Enclosure

SE[redacted]4235) to QEP (N2460) GYPSUM HILLS[redacted]IT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
COSTAS FED 4-21-1C	21	080S	210E	4304731826	5355	Federal	OW	P	
COSTAS FED 5-21-2C	21	080S	210E	4304731827	5355	Federal	OW	P	
GHFU 10G-19-8-21	19	080S	210E	4304733566	5355	Federal	OW	P	
GYPSUM HILLS 11	20	080S	210E	4304732459	5355	Federal	OW	P	
GYPSUM HILLS 13	21	080S	210E	4304732460	5355	Federal	OW	P	
GYPSUM HILLS 14	20	080S	210E	4304732647	5355	Federal	OW	P	
GYPSUM HILLS 16	20	080S	210E	4304732675	5355	Federal	OW	P	
GYPSUM HILLS 18	20	080S	210E	4304732650	5355	Federal	OW	P	
GYPSUM HILLS 19	20	080S	210E	4304732651	5355	Federal	OW	P	
GYPSUM HILLS 20	20	080S	210E	4304732652	5355	Federal	OW	P	
GYPSUM HILLS 4	19	080S	210E	4304730028	5355	Federal	OW	P	
GYPSUM HILLS 9	20	080S	210E	4304732304	5355	Federal	OW	P	
STAGECOACH FED 23-21	21	080S	210E	4304731541	5355	Federal	OW	P	
WHITON FED 1-19-3C	19	080S	210E	4304731065	5355	Federal	OW	P	
COSTAS FED 1-20-4B	20	080S	210E	4304731006	5355	Federal	WI	A	
COSTAS FED 2-20-3B	20	080S	210E	4304731066	5355	Federal	WI	A	
COSTAS FED 3-21-1D	21	080S	210E	4304731604	5355	Federal	WI	A	
GYPSUM HILLS 10	21	080S	210E	4304732306	5355	Federal	WI	A	
GYPSUM HILLS 12	19	080S	210E	4304732458	5355	Federal	WI	A	
GYPSUM HILLS 15	20	080S	210E	4304732648	5355	Federal	WI	A	
GYPSUM HILLS 17	20	080S	210E	4304732649	5355	Federal	WI	A	
GYPSUM HILLS 3	20	080S	210E	4304720002	5355	Federal	WI	A	
GYPSUM HILLS 6	20	080S	210E	4304730099	5251	Federal	WI	A	
SRU 8-I	20	080S	210E	4304731932	5355	Federal	WI	A	

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-922

June 9, 2003

QEP Uinta Basin, Inc.
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Gypsum Hills (Green River) Unit
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed it name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Gypsum Hills (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Gypsum Hills (Green River) Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Gypsum Hills (Green River) Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure
bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Minerals Adjudication Group
File – Gypsum Hills (Green River) Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron
UT922:TAThompson:tt:6/9/03

JUL 0 7 2003

3104 (932.34)WF
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc. 1050 17th Street Suite 500 Denver, Colorado 80265	:	Oil and Gas lease

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

S/Wilbert B Forbes

Wilbert B. Forbes
Land Law Examiner
Branch of Use Authorization
Division of Resources Planning,
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Unita Basin
MFO

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent/Operator

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **2/1/2003**

FROM: (Old Operator):	**TO:** (New Operator):
N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341

CA No. **Unit:** **GYPSUM HILLS (GREEN RIVER)**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
GHFU 10G-19-8-21	19	080S	210E	4304733566	5355	Federal	OW	P	
GYPSUM HILLS 4	19	080S	210E	4304730028	5355	Federal	OW	P	
WHITON FED 1-19-3C	19	080S	210E	4304731065	5355	Federal	OW	P	
GYPSUM HILLS 11	20	080S	210E	4304732459	5355	Federal	OW	P	
GYPSUM HILLS 14	20	080S	210E	4304732647	5355	Federal	OW	P	
GYPSUM HILLS 16	20	080S	210E	4304732675	5355	Federal	OW	P	
GYPSUM HILLS 18	20	080S	210E	4304732650	5355	Federal	OW	P	
GYPSUM HILLS 19	20	080S	210E	4304732651	5355	Federal	OW	P	
GYPSUM HILLS 20	20	080S	210E	4304732652	5355	Federal	OW	P	
GYPSUM HILLS 9	**20**	**080S**	**210E**	**4304732304**	5355	Federal	OW	P	
COSTAS FED 4-21-1C	21	080S	210E	4304731826	5355	Federal	OW	P	
COSTAS FED 5-21-2C	21	080S	210E	4304731827	5355	Federal	OW	P	
GYPSUM HILLS 13	21	080S	210E	4304732460	5355	Federal	OW	P	
STAGECOACH FED 23-21	21	080S	210E	4304731541	5355	Federal	OW	P	

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/2/2003
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/19/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151
5. If **NO**, the operator was contacted contacted on:

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 8/28/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 8/28/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965-003-032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 799446

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033
2. The **FORMER** operator has requested a release of liability from their bond on: n/a
   The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold) **X - Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective: **1/1/2007**

FROM: (Old Operator):	**TO:** (New Operator):
N2460-QEP Uinta Basin, Inc.	N5085-Questar E&P Company
1050 17th St, Suite 500	1050 17th St, Suite 500
Denver, CO 80265	Denver, CO 80265
Phone: 1 (303) 672-6900	Phone: 1 (303) 672-6900

CA No. **Unit:** **GYPSUM HILLS UNIT**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS				*				

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 1/31/2005

4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143

5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

5b. Inspections of LA PA state/fee well sites complete on: n/a

5c. Reports current for Production/Disposition & Sundries on: n/a

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA

7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007

8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on:

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 4/30/2007 and 5/15/2007
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 4/30/2007 and 5/15/2007
3. Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
4. Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
5. Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024
2. Indian well(s) covered by Bond Number: 799446

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033

3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS: THIS IS A COMPANY NAME CHANGE.
SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
GYPSUM HILLS UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GYPSUM HILLS 3	GH 3	NENE	20	080S	210E	4304720002	5355	Federal	WI	A
GYPSUM HILLS 4	GH 4	SWSE	19	080S	210E	4304730028	5355	Federal	OW	P
GYPSUM HILLS 6	GH 6	NENW	20	080S	210E	4304730099	5251	Federal	WI	A
COSTAS FED 1-20-4B	GH 1-20	NESW	20	080S	210E	4304731006	5355	Federal	WI	A
WHITON FED 1-19-3C	GH 1-19	SESE	19	080S	210E	4304731065	5355	Federal	OW	P
COSTAS FED 2-20-3B	GH 2-20	NESE	20	080S	210E	4304731066	5355	Federal	WI	A
STAGECOACH FED 23-21	GH 23-21	NWSW	21	080S	210E	4304731541	5355	Federal	OW	P
COSTAS FED 3-21-1D	GH 3-21	SWNW	21	080S	210E	4304731604	5355	Federal	WI	A
COSTAS FED 4-21-1C	GH 4-21	SENW	21	080S	210E	4304731826	5355	Federal	OW	P
COSTAS FED 5-21-2C	GH 5-21	SENE	21	080S	210E	4304731827	5355	Federal	OW	P
SRU 8-I	GH 8-I	SWNE	20	080S	210E	4304731932	5355	Federal	WI	A
GYPSUM HILLS 9	GH 9	SENE	20	080S	210E	4304732304	5355	Federal	OW	P
GYPSUM HILLS 10	GH 10	NWSE	21	080S	210E	4304732306	5355	Federal	WI	A
GYPSUM HILLS 12	GH 12	NESE	19	080S	210E	4304732458	5355	Federal	WI	A
GYPSUM HILLS 11	GH 11	NWSE	20	080S	210E	4304732459	5355	Federal	OW	P
GYPSUM HILLS 13	GH 13	NESW	21	080S	210E	4304732460	5355	Federal	OW	P
GYPSUM HILLS 14	GH 13	NWSW	20	080S	210E	4304732647	5355	Federal	OW	P
GYPSUM HILLS 15	GH 15	SWSW	20	080S	210E	4304732648	5355	Federal	WI	A
GYPSUM HILLS 17	GH 17	SWSE	20	080S	210E	4304732649	5355	Federal	WI	A
GYPSUM HILLS 18	GH 18	SESE	20	080S	210E	4304732650	5355	Federal	OW	P
GYPSUM HILLS 19	GH 19	SWNW	20	080S	210E	4304732651	5355	Federal	OW	P
GYPSUM HILLS 20	GH 20	SENW	20	080S	210E	4304732652	5355	Federal	OW	P
GYPSUM HILLS 16	GH 16	SESW	20	080S	210E	4304732675	5355	Federal	OW	P
GHU 10W-19-8-21	GH 10W-19-8-21	NWSE	19	080S	210E	4304733528	12736	Federal	GW	P
GH 10G-19-8-21	GH 10G-19-8-21	NWSE	19	080S	210E	4304733566	5355	Federal	OW	P
WVFU 11W-17-8-21	WV 11W-17-8-20	NESW	17	080S	210E	4304733912	13228	Federal	GW	P
WV 5W-17-8-21	WV 5W-17-8-21	SWNW	17	080S	210E	4304733954	13332	Federal	GW	P
WV 7W-17-8-21	WV 7W-17-8-21	SWNE	17	080S	210E	4304733956	13330	Federal	GW	P
GH 9W-17-8-21	GH 9W-17-8-21	NESE	17	080S	210E	4304734150	13392	Federal	GW	P
GH 16W-17-8-21	GH 16W-17-8-21	SESE	17	080S	210E	4304734156	13354	Federal	GW	P
WV EXT 10W-17-8-21	WVX 10W-17-8-20	NWSE	17	080S	210E	4304734561	13744	Federal	GW	P
GH EXT 15W-17-8-21	GHX 15W-17-8-20	SWSE	17	080S	210E	4304734562	13674	Federal	GW	P
GYPSUM HILLS 13HG-17-8-21	GHX 13HG-17-8-21	SWSW	17	080S	210E	4304734723	5355	Federal	OW	S
GH 1G-17-8-21	GH 1G-17-8-21	NENE	17	080S	210E	4304734927	5355	Federal	OW	P
WV EXT 2W-17-8-21	WVX 2W-17-8-20	NWNE	17	080S	210E	4304734928	14253	Federal	GW	P
WV EXT 8W-17-8-21	WVX 8W-17-8-20	SENE	17	080S	210E	4304734929	13792	Federal	GW	P
GH 4MU-20-8-21	GH 4MU-20-8-21	NWNW	20	080S	210E	4304735068	14213	Federal	GW	P
GYPSUM HILLS 13MU-20-8-21	GH 13MU-20-8-20	SWSW	20	080S	210E	4304735070	14817	Federal	GW	P
GH 5W-20-8-21	GH 5W-20-8-21	SWNW	20	080S	210E	4304735097	14557	Federal	GW	P
WVX 3MU-17-8-21	WVX 3MU-17-8-21	NENW	17	080S	210E	4304735318	14113	Federal	GW	P
GH 15ML-18-8-21	GH 15ML-18-8-21	SWSE	18	080S	210E	4304735323	15483	Federal	GW	DRL

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)
GYPSUM HILLS UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GH 1ML-19-8-21	GH 1ML-19-8-21	NENE	19	080S	210E	4304735324	14824	Federal	GW	P
GH 16W-19-8-21	GH 16W-19-8-21	SESE	19	080S	210E	4304735325	14823	Federal	GW	DRL
WVX 14MU 17-8-21	WVX 14MU 17-8-21	SESW	17	080S	210E	4304735369	14098	Federal	GW	P
WVX 12MU-17-8-21	WVX 12MU-17-8-21	NWSW	17	080S	210E	4304735370	15108	Federal	GW	P
WVX 8MU-19-8-21	WVX 8MU-19-8-21	SENE	19	080S	210E	4304735372	14241	Federal	GW	P
GH 10ML-18-8-21	GH 10ML-18-8-21	NWSE	18	080S	210E	4304735391	15482	Federal	GW	P
GH 8G-17-8-21	GH 8G-17-8-21	SENE	17	080S	210E	4304737992	5355	Federal	OW	DRL
GH 16G-17-8-21	GH 16G-17-8-21	SESE	17	080S	210E	4304737993	5355	Federal	OW	DRL
WVX 1MU-17-8-21	WVX 1MU-17-8-21	NENE	17	080S	210E	4304738156		Federal	GW	APD
GH 8MU-20-8-21	GH 8-20-8-21	SENE	20	080S	210E	4304738157		Federal	GW	APD
WVX 13MU-17-8-21	WVX 13MU-17-8-21	SWSW	17	080S	210E	4304738188		Federal	GW	APD
WVX 6MU-17-8-21	WVX 6MU-17-8-21	SENW	17	080S	210E	4304738189		Federal	GW	APD
WVX 4MU-17-8-21	WVX 4MU-17-8-21	NWNW	17	080S	210E	4304738190		Federal	GW	APD
WVX 16MU-18-8-21	WVX 16MU-18-8-21	SESE	18	080S	210E	4304738191		Federal	GW	APD
GH 2MU-19-8-21	GH 2MU-19-8-21	NWNE	19	080S	210E	4304738192		Federal	GW	APD
GH 3MU-19-8-21	GH 3MU-19-8-21	NENW	19	080S	210E	4304738250		Federal	GW	APD
GH 4MU-19-8-21	GH 4MU-19-8-21	NWNW	19	080S	210E	4304738264		Federal	GW	APD
GH 5MU-19-8-21	GH 5MU-19-8-21	SWNW	19	080S	210E	4304738265		Federal	GW	APD
GH 6MU-19-8-21	GH 6MU-19-8-21	SENW	19	080S	210E	4304738266		Federal	GW	APD
GH 7MU-19-8-21	GH 7D-19-8-21	SWNE	19	080S	210E	4304738267		Federal	GW	APD
GH 11MU-19-8-21	GH 11MU-19-8-21	NESW	19	080S	210E	4304738268		Federal	GW	APD
GH 12MU-19-8-21	GH 12MU-19-8-21	NWSW	19	080S	210E	4304738269		Federal	GW	APD
GH 15MU-19-8-21	GH 15MU-19-8-21	SWSE	19	080S	210E	4304738270		Federal	GW	APD
GH 14MU-19-8-21	GH 14MU-19-8-21	SESW	19	080S	210E	4304738472		Federal	GW	APD
WVX 1MU-18-8-21	WVX 1MU-18-8-21	NENE	18	080S	210E	4304738659		Federal	GW	APD
WVX 9MU-18-8-21	WVX 9MU-18-8-21	NESE	18	080S	210E	4304738660		Federal	GW	APD
WVX 8MU-18-8-21	GH 8G-18-8-21	SENE	18	080S	210E	4304738661		Federal	GW	APD
GH 6MU-20-8-21	GH 6-20-8-21	SENW	20	080S	210E	4304738662		Federal	GW	APD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: see attached	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached	
7. UNIT or CA AGREEMENT NAME: see attached	
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER	8. WELL NAME and NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY	9. API NUMBER: attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265 / PHONE NUMBER: (303) 308-3068	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	COUNTY: Uintah STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 1/1/2007	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Operator Name Change
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:
Federal Bond Number: 965002976 (BLM Reference No. ESB000024)
Utah State Bond Number: 965003033
Fee Land Bond Number: 965003033
Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

Jay B. Neese, Executive Vice President
Questar Exploration and Production Company

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs

SIGNATURE DATE 3/16/2007

(This space for State use only)

RECEIVED
APR 19 2007
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: see attached	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached	
7. UNIT or CA AGREEMENT NAME: see attached	
1 TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER	8. WELL NAME and NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY	9. API NUMBER: attached
3 ADDRESS OF OPERATOR: 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265 — PHONE NUMBER: (303) 308-3068	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL: FOOTAGES AT SURFACE: attached — QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	COUNTY: Uintah — STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 1/1/2007	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Well Name Changes
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs

SIGNATURE [signature] DATE 4/17/2007

(This space for State use only)

RECEIVED
APR 19 2007
DIV. OF OIL, GAS & MINING

(5/2000)

(See Instructions on Reverse Side)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

TAKE PRIDE IN AMERICA

IN REPLY REFER TO
3180
UT-922

April 23, 2007

Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Gypsum Hills (GR) Unit
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Gypsum Hills (GR) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Gypsum Hills (GR) Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Gypsum Hills (GR) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble
Acting Chief, Branch of Fluid Minerals

Enclosure
bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Gypsum Hills (GR) Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files
UT922:TAThompson:tt:4/23/07

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
UTU-0140740

6. If Indian, Allottee or Tribe Name
UTE TRIBE

7. If Unit of CA/Agreement, Name and/or No.
GYPSUM HILLS UNIT

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
GH 9

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO. CONTACT: JAN NELSON

9. API Well No.
43-047-32304

3a. Address
11002 EAST 17500 SOUTH, VERNAL, UTAH 84078

3b. Phone No. *(include area code)*
(435) 781-4331

10. Field and Pool or Exploratory Area
GYPSUM HILLS

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
2058' FNL 663' FEL, SECTION 20, T8S, R21E

11. Country or Parish, State
UINTAH, UTAH

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Re-Enter
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

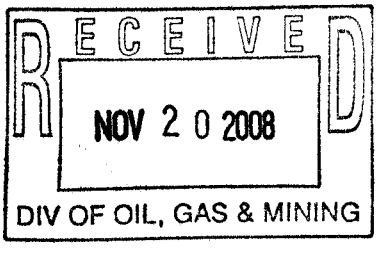
Questar Exploration & Production co. proposes to re-enter the GH 9 and drill a dual lateral horizontial oil well.

Bottom hole footages for Lateral 1 are 10' FNL 2450' FWL, Section 20, T8S, R21E
Bottom hole footages for Lateral 2 are 1000' FSL 800' FWL, Section 21, T8S, R21E

Please find attached:
1. Re-Entry Procedure
2. Directional Drilling Plan
3. 8-point Drilling Program
4. Proposed Well Bore Diagram
5. Legal Plat / Map Prepared by UELS
6. Location Layout refering to Reserve Pit

LAT #1 621130 X
4441334
40.115844
-109.538598

LAT #2
622303 X
4440090
40.104115
-109.565081



Should you need further technical information, Please contact our Drilling Engineer, Mama Sikes at (303) 308-3079.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Laura Bills

Title Associate Regulatory Affairs Analyst

Signature Laura Bills

Date 11/20/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

BRADLEY G. HILL

Title ENVIRONMENTAL MANAGER

Date 12-02-08

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Federal Approval of this Action is Necessary

CONFIDENTIAL

QUESTAR EXPLORATION AND PRODUCTION

GHU 9
API: 43-047-32304
Summarized Re-Entry Procedure

1. Rig down pumping unit, clear location of all unnecessary equipment.
2. MIRU pulling unit.
3. ND tubing head, NU BOP's (3M).
4. Kill well if necessary.
5. Pull out of hole with 208 rods (83 - $^{7}/_{8}$" plain, 90 - ¾" plain and 35 - ¾" scrapered) and 2 ½" x 1 3/4" x RHAC x 20 x 21 pump.
6. Unseat tubing anchor and POOH with 168 jts 2 $^{7}/_{8}$" 6.5# J-55 tubing, PSN, 1 jt. 2 7/8" 6.5# J-55 tubing, TAC, and pin notched collar.
7. PU bit and 5 1/2" casing scraper, RIH to ~4,850'.
8. Roll hole with hot oiler, TOOH with bit and scraper.
9. RU wireline truck and RIH with CIBP.
10. Set **top** of CIBP @ +/- 4,783', 5' above nearest collar @ 4,788', POH.
11. ND BOP's
12. RD pulling unit, move off location.
13. MIRU drilling rig.
14. NU rig's 3,000 WP rated BOP.
15. RIH with whipstock, orient and set whipstock on top of CIBP set at 4,783' oriented at 312° ± azimuth. If it is off a little, it is better to be less (< 312 °) rather than greater (>315 °) due to the tendency for the bit to turn right as it comes out of the window. Plus or minus 2-3 ° is acceptable.
16. Shear setting pins and start milling operations, mill window in 5 1/2" casing @ 4,771' top, 4,477' bottom and pilot hole. Work mills in and out of window several times.
17. TOOH, PU directional BHA and gyro tool, TIH.
18. Gyro steer the well at a 312° azimuth with 12.86°/100' build rates to 45 to 60 feet or until the MWD tools have cleared the casing and are providing accurate readings.
19. Pull gryo tool and continue to drill with directional equipment to land in the G1 Lime formation at a TVD of +/- 5,202' TVD, +/- 5,212' MD.
20. Drill +/- 2,500' of lateral in the G1 Lime with a 1.7 ° apparent down dip angle.

21. Circulate and condition hole, TOOH, LD 3,180' of drill pipe.
    a. PU 2,500' of 3 1/2" flush slotted liner, 691' of blank liner and liner dropping tool.
    b. RIH w/ liner and dropping tool, drop liner at 4,772', just outside window.
    c. TOOH laying down remainder of the drill pipe.
22. RIH and set **top** of RBP @ +/- 4,705', 8' above nearest collar @ 4,713', POH.
23. RIH with whipstock, orient and set whipstock on top of RBP set at 4,705' oriented at 147° ± azimuth. If it is off a little, it is better to be less (< 147°) rather than greater (>150°) due to the tendency for the bit to turn right as it comes out of the window. Plus or minus 2-3° is acceptable.
24. Shear setting pins and start milling operations, mill window in 5 1/2" casing @ 4,689' top, 4,695' bottom and pilot hole. Work mills in and out of window several times.
25. TOOH, PU directional BHA and gyro tool, TIH.
26. Gyro steer the well at a 147° azimuth with 11.38°/100' build rates to 50 to 100 feet or until the MWD tools have cleared the casing and are providing accurate readings.
27. Pull gryo tool and continue to drill with directional equipment to land in the G1 Lime formation at a TVD of +/- 5,189' TVD, +/- 5,395' MD.
28. Drill +/- 2,600' of lateral in the G1 Lime with a 1.4° apparent up dip angle.
    a. Mud system to be a weighted water based mud, weights are expected to be in the 8.8 – 9.8 ppg range.
29. Circulate and condition hole, TOOH, LD 3,395' of drill pipe.
    a. PU 2,600' of 3 1/2" flush slotted liner, 798' of blank liner and liner dropping tool.
    b. RIH w/ liner and dropping tool, drop liner at 4,700', just outside window.
    c. TOOH.
30. RIH and set RBP @ +/- 4,600', 5' above nearest collar @ 4,595', POH.
31. ND BOP's.
32. RDMOL.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
GHU 9 (Re-Entry Horizontal)

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated top of important geologic markers are as follows:

Lateral #1:

Formation	Depth, TVD	Depth, MD
Green River	2,124'	2,124'
Kick Off Point	4,775'	4,777'
Green River (G1 Lime)	5,210'	5,377'
TD	5,295'	7,963'

Lateral #2:

Formation	Depth, TVD	Depth, MD
Green River	2,124'	2,124'
Kick Off Point	4,693'	4,695'
Green River (G1 Lime)	5,189'	5,395'
TD	5,133'	8,098'

2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

Lateral #1 (ESE):

Substance	Formation	Depth, TVD	Depth, MD
Oil/Gas	Green River (G1 Lime)	5,210'	5,377' – 7,963'

Lateral #2 (WSW):

Substance	Formation	Depth, TVD	Depth, MD
Oil/Gas	Green River (G1 Lime)	5,189'	5,395' – 8,098'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125 (which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

A. 3,000 psi double gate, 3,000 psi annular (schematic attached)

B. Function test daily.

C. All casing strings shall be pressure tested (0.22 psi/ft or 1,500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield of the casing.

D. Ram type preventers and associated equipment shall be tested to rated working pressure if isolated by a test plug or to 50% of the internal yield pressure of casing, whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil & Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 3M system and individual components shall be operable as designed.

4. Casing Vertical Wellbore (Existing)

Hole Size	Casing Size	Top, MD	Bottom, MD	Weight, lb/ft	Grade	Thread	Condition
12 1/4"	8 5/8"	sfc	411'	24.0	K-55	STC	New
7 7/8"	5 ½"	sfc	5,378'	17.0	K-55	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
8 5/8"	24.0 lb.	K-55	STC	1,370 psi	2,950 psi	263,000 lb.
5 ½"	17.0 lb.	K-55	LTC	4,910 psi	5,320 psi	272,000 lb.

The lateral portion of these wellbores will be cased with blank and slotted liners.

Lateral #1:

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade	Mud Weight
4 ¾"	3 ½"	4,777'	7,963'	9.2	P-110	8.8-9.8

Lateral #2:

Hole Size	Casing Size	Top,MD	Bottom, MD	Weight	Grade	Mud Weight
4 ¾"	3 ½"	4,695'	8,098'	9.2	P-110	8.8-9.8

Please refer to the wellbore diagram and re-entry procedure for further details.

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125
BURST: 1.10
TENSION: 1.80

Area Fracture Gradient: 0.6 psi/foot
Maximum anticipated mud weight: 9.8 ppg
Maximum surface treating pressure: 4,000 psi

5. Cementing Program

Casing in the vertical wellbore already exists and is cemented in place requiring no cement.

Lateral #1: 3 ½" Slotted & Blank Liner: 4,782' – 9,963' (MD)
No cement, dropped in open hole.

Lateral #2: 3 ½" Slotted & Blank Liner: 4,700' – 8,098' (MD)
No cement, dropped in open hole.

6. Auxilliary Equipment

A. Kelly Cock – Yes

B. Float at the bit – No

C. Monitoring equipment on the mud system – visually and/or PVT or Flow Show

D. Fully opening safety valve on the rig floor – Yes

E. Rotating Head – Yes

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION AND PRODUCTION, CO.
GHU 9 (Re-Entry Horizontal)

Drilling the surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III requirements, subsection E Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is less than 500 feet and high pressures are not expected.

a. **Properly lubricated and maintained rotating head.** A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.

b. **Blooie line discharge 100' from well bore and securely anchored.** The blooie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.

c. **Automatic ignitor or continuous pilot light on the blooie line.** A diffuser will be used rather than an automatic pilot/ignitor. Water is injected into the compressed air and eliminates the need for the pilot light and the need for dust suppression equipment.

d. **Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore.** Compressors located 50 feet on the opposite side of the well bore from the blooie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valve on the compressor, 3) spark arrestors on the motors.

e. **Deflector on the end of the blooie line** – Questar will mount a deflector unit at the end of the blooie line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the blooie. A washed out deflector will be easily replaced.

g. **Flare Pit** – there will be no need of a flare pit during the surface hole air drilling operation because the blooie line is routed directly to the reserve pit. When the big rig arrives for the main drilling after setting surface casing, all flare lines will be routed to the flare pit.

Drilling of the lateral will be done with fresh water based mud systems consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used the concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.8 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow show will be used upon exit of existing production casing to TD.

Gas detector will be used upon exit of existing production casing to TD.

7. Testing, Logging, and Coring Program

A. Cores – None Anticipated

B. DST – None Anticipated

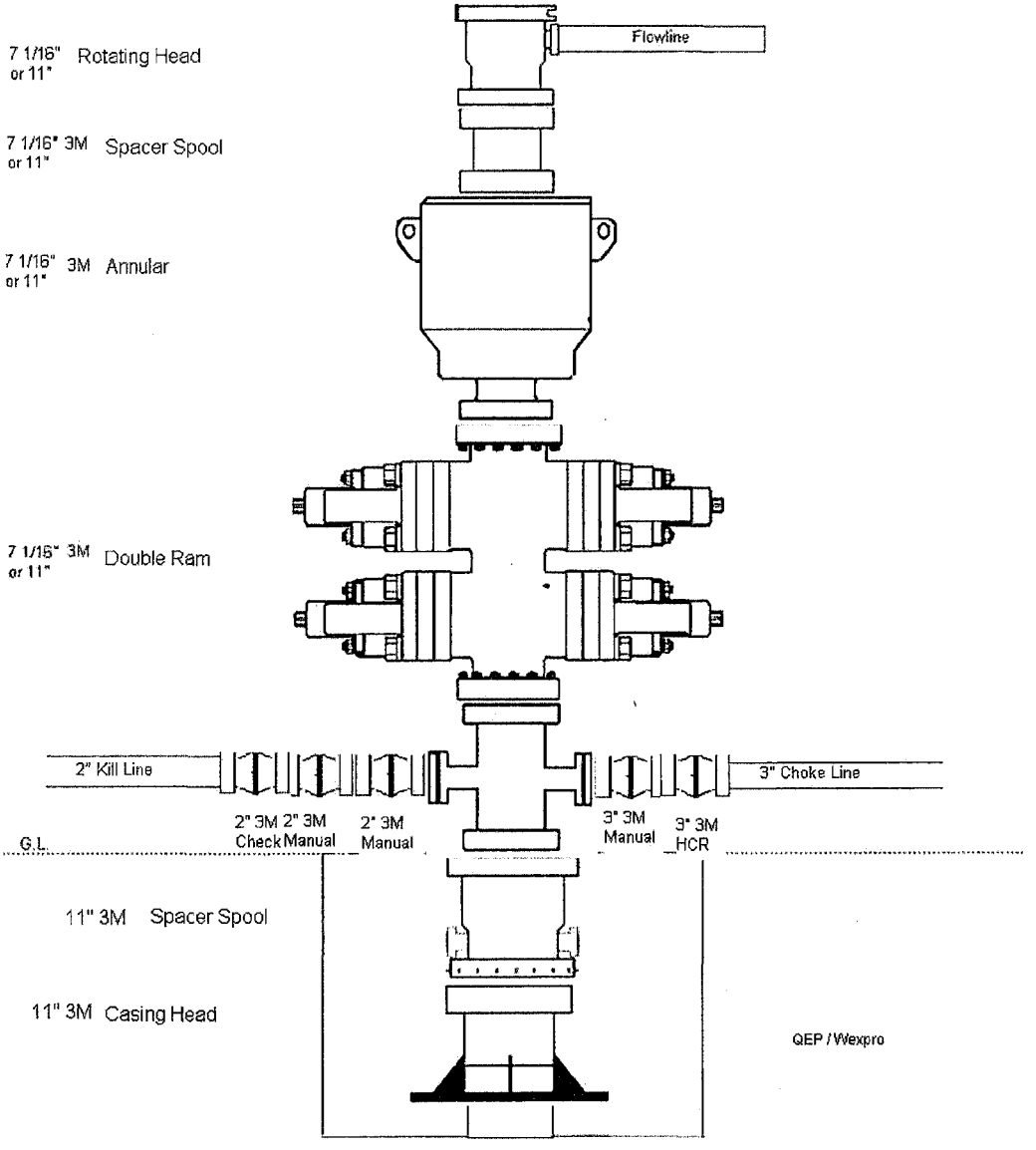
C. Logging:
   i. Mud logging from casing exit to TD
   ii. MWD-GR will be utilized during drilling operations to aid in landing the curve and maintaining the lateral within the desired zone.

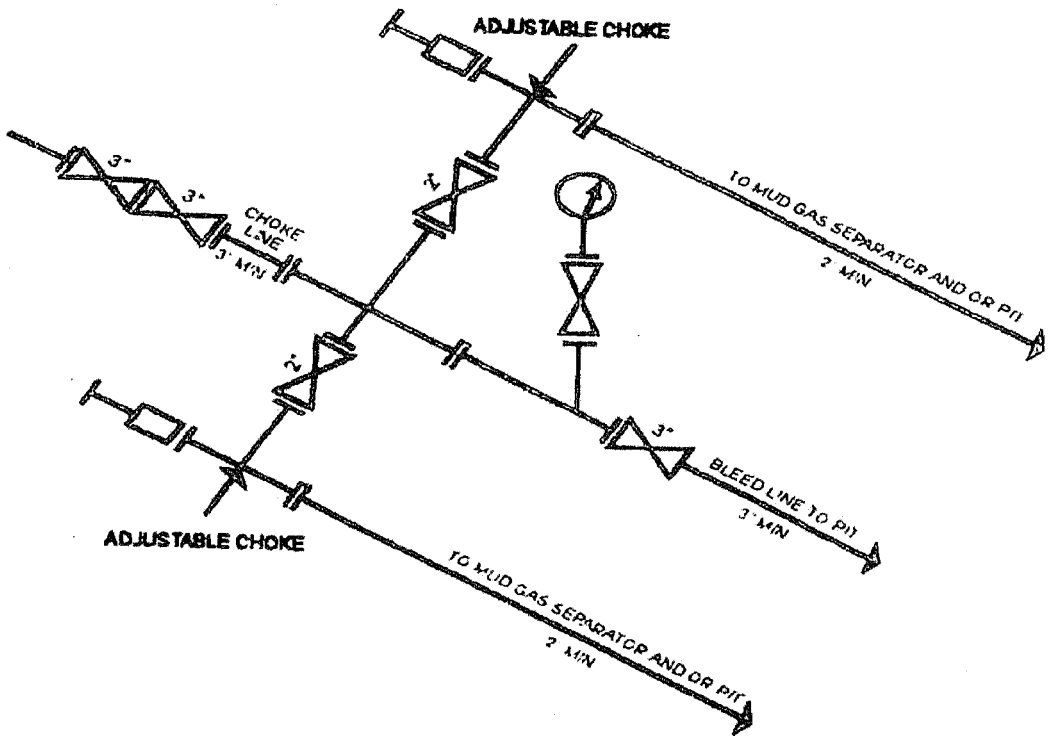
D. Formation and completion interval: G1 Lime interval, final determination of completion will be made by analysis of mud logging data. Stimulation: stimulation will be designed for the particular area of interest encountered.

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H_2S has been encountered or is known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom-hole pressure equals approximately 3,455 psi. Maximum anticipated bottom hole temperature is approximately 150°F.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION COMPANY
GH 9 RE-ENTRY





3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

[54 FR 39528, Sept. 27, 1989]

GHU 9 - Lateral #1 Drilling Plan 11-13-08 Proposal

Report Date:	November 19, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:		**Vertical Section Azimuth:**	311.020°
Field:	Uinta	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	Gypsum Hills / GHU 9	**TVD Reference Datum:**	KB
Well:	GHU 9	**TVD Reference Elevation:**	4699.0 ft relative to MSL
Borehole:	Lateral 1(est RKB)	**Sea Bed / Ground Level Elevation:**	4718.000 ft relative to MSL
UWI/API#:		**Magnetic Declination:**	11.439°
Survey Name / Date:	GHU 9 - Lateral #1 Drilling Plan 11-13-08 / November 13, 2008	**Total Field Strength:**	52664.719 nT
Tort / AHD / DDI / ERD ratio:	97.800° / 3023.17 ft / 5.648 / 0.571	**Magnetic Dip:**	66.019°
Grid Coordinate System:	NAD83 Utah State Planes, Central Zone, US Feet	**Declination Date:**	November 13, 2008
Location Lat/Long:	N 40 6 36.734, W 109 34 16.502	**Magnetic Declination Model:**	IGRF 2005
Location Grid N/E Y/X:	N 7214682.068 ftUS, E 2179821.077 ftUS	**North Reference:**	True North
Grid Convergence Angle:	+1.23551567°	**Total Corr Mag North -> True North:**	+11.439°
Grid Scale Factor:	0.99991033	**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	164.00M	7214682.07	2179821.08
	407.00	1.00	164.00	406.98	-2.98	-3.41	0.98	3.55	164.00	0.25	164.00M	7214678.68	2179822.13
	898.00	0.50	164.00	897.94	-8.37	-9.59	2.75	9.98	164.00	0.10	164.00M	7214672.54	2179824.03
	1389.00	0.75	164.00	1388.91	-12.86	-14.74	4.23	15.33	164.00	0.05	164.00M	7214667.42	2179825.62
	1853.00	0.25	164.00	1852.89	-16.26	-18.63	5.34	19.38	164.00	0.11	164.00M	7214663.56	2179826.82
	2381.00	1.75	164.00	2380.79	-23.99	-27.49	7.88	28.60	164.00	0.28	164.00M	7214654.76	2179829.55
	2567.00	3.50	164.00	2566.59	-31.14	-35.68	10.23	37.12	164.00	0.94	164.00M	7214646.62	2179832.07
	2663.00	3.25	164.00	2662.42	-35.88	-41.11	11.79	42.77	164.00	0.26	164.00M	7214641.22	2179833.75
	2754.00	2.50	164.00	2753.31	-39.71	-45.50	13.05	47.33	164.00	0.82	164.00M	7214636.87	2179835.10
	2846.00	2.00	164.00	2845.24	-42.74	-48.97	14.04	50.94	164.00	0.54	164.00M	7214633.42	2179836.17
	3094.00	1.25	164.00	3093.13	-48.63	-55.73	15.98	57.98	164.00	0.30	164.00M	7214626.70	2179838.25
	3622.00	1.50	164.00	3620.98	-59.26	-67.91	19.47	70.65	164.00	0.05	164.00M	7214614.60	2179842.01
	3897.00	1.50	164.00	3895.89	-65.30	-74.83	21.46	77.85	164.00	0.00	164.00M	7214607.73	2179844.14
Tie-In to Original Hole	4395.00	1.00	164.00	4393.77	-74.41	-85.27	24.45	88.71	164.00	0.10	-48.00M	7214597.35	2179847.36
	4776.00	0.00	312.00	4774.75	-77.20	-88.47	25.37	92.03	164.00	0.26	-48.00M	7214594.17	2179848.34
KOP-Build 12.86/100ft	4777.00	0.00	312.00	4775.75	-77.20	-88.47	25.37	92.03	164.00	0.00	-48.00M	7214594.17	2179848.34
G1 Lime Top	*5376.62*	*77.13*	*312.00*	*5210.00*	*268.95*	*143.19*	*-231.91*	*272.55*	*301.69*	*12.86*	*0.00G*	*7214820.21*	*2179586.15*
Hold 312 azm	5463.49	88.30	312.00	5221.00	354.97	200.75	-295.84	357.53	304.16	12.86	0.00G	7214876.38	2179521.00
PBHL/TD	7963.49	88.30	312.00	5295.17	2853.50	1872.84	-2152.89	2853.50	311.02	0.00	0.00G	7216507.89	2177628.51

Survey Type: Non-Def Proposal

Survey Error Model: **SLB ISCWSA version 22 *** 3-D 95.00% Confidence 2.7955 sigma**

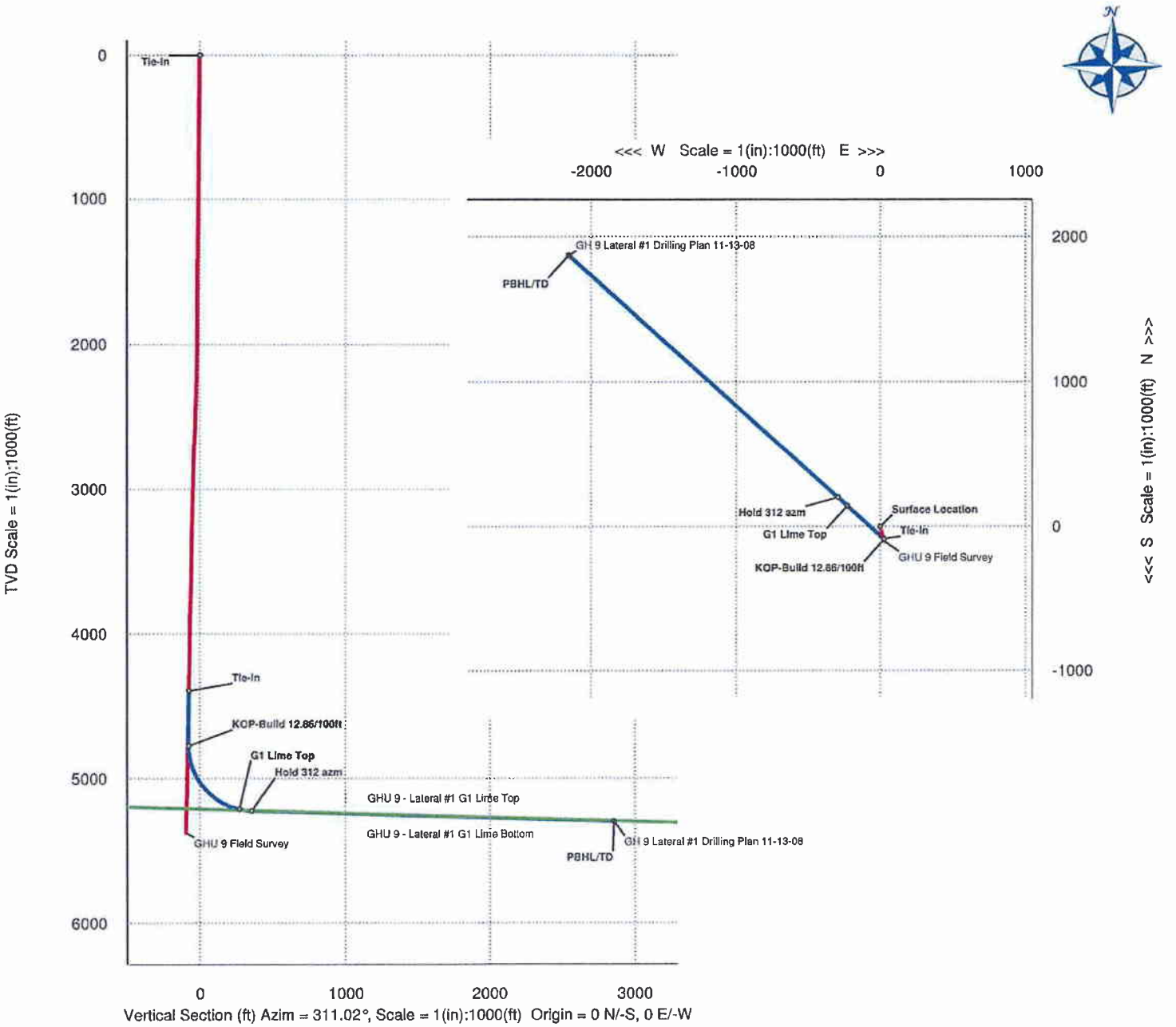
Surveying Prog:

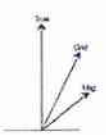
MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Borehole -> Survey
-19.00	0.00	Act-Stns	SLB_UNKNOWN (default tool used)	Original Hole -> GHU 9 Field Survey
0.00	4000.00	Act-Stns	SLB_PHOTO-MSS	Original Hole -> GHU 9 Field Survey
4000.00	4395.00	1/100.00	SLB_PHOTO-MSS	Original Hole -> GHU 9 Field Survey
4395.00	7963.49	1/100.00	SLB_MWD-STD	Lateral 1(est RKB) -> GHU 9 - Lateral #1 Drilling Plan 11-13-08

QUESTAR

WELL	FIELD	STRUCTURE
GHU 9 - Lateral #1 Plan	Uinta	Gypsum Hills

Magnetic Parameters					Surface Location			NAD83 Utah State Planes, Central Zone, US Feet			Miscellaneous			
Model:	IGRF 2005	Dip:	66.019°	Date:	November 13, 2008	Lat:	N40 8 36.734	Northing:	7214662.07 ftUS	Grid Conv:	+1.23551567°	Slot:	GH 9	TVD Ref:	KB (4599.00 ft above MSL)
		Mag Dec:	+11.439°	FS:	52664.7 nT	Lon:	W109 34 19.502	Easting:	2179821.68 ftUS	Scale Fact:	0.999910327	Plan:	GH 9 Lateral #1 Drilling Plan 11-13-08	Date:	November 19, 2008





Legend

- GH 9 Lateral #1 Drilling Plan 11-13-08
- GHU 9 Field Survey
- GHU 9 - Lateral #1 G1 Lime Top
- GHU 9 - Lateral #1 G1 Lime Bottom

True North

Tot Corr (M->T +11.4390°)

Mag Dec (+11.439°)

Grid Conv (+1.23551567°)

Quality Control

Date Drawn: Wed 03:30 PM November 19, 2008

Drawn by: Current User

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In	4395.00	1.00	164.00	4393.77	-74.41	-85.27	24.45	
KOP-Build 12.86/100ft	4777.00	0.00	312.00	4775.75	-77.20	-88.47	25.37	0.00
G1 Lime Top	5376.62	77.13	312.00	5210.00	268.95	143.19	-231.91	12.86
Hold 312 azm	5463.49	88.30	312.00	5221.00	354.97	200.75	-295.84	12.86
PBHL/TD	7963.49	88.30	312.00	5295.17	2853.50	1872.84	-2152.89	0.00

GHU 9 - Lateral #2 Drilling Plan 11-13-08 Proposal

Report Date:	November 19, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:		**Vertical Section Azimuth:**	147.480°
Field:	Uinta	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	Gypsum Hills / GHU 9	**TVD Reference Datum:**	KB
Well:	GHU 9	**TVD Reference Elevation:**	4699.0 ft relative to MSL
Borehole:	Lateral 2(est RKB)	**Sea Bed / Ground Level Elevation:**	4718.000 ft relative to MSL
UWI/API#:		**Magnetic Declination:**	11.439°
Survey Name / Date:	GHU 9 - Lateral #2 Drilling Plan 11-13-08 / November 19, 2008	**Total Field Strength:**	52664.719 nT
Tort / AHD / DDI / ERD ratio:	100.900° / 3206.24 ft / 5.703 / 0.617	**Magnetic Dip:**	66.019°
Grid Coordinate System:	NAD83 Utah State Planes, Central Zone, US Feet	**Declination Date:**	November 13, 2008
Location Lat/Long:	N 40 6 36.734, W 109 34 16.502	**Magnetic Declination Model:**	IGRF 2005
Location Grid N/E Y/X:	N 7214682.068 ftUS, E 2179821.077 ftUS	**North Reference:**	True North
Grid Convergence Angle:	+1.23551567°	**Total Corr Mag North -> True North:**	+11.439°
Grid Scale Factor:	0.99991033	**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	164.00M	7214682.07	2179821.08
	407.00	1.00	164.00	406.98	3.41	-3.41	0.98	3.55	164.00	0.25	164.00M	7214678.68	2179822.13
	898.00	0.50	164.00	897.94	9.57	-9.59	2.75	9.98	164.00	0.10	164.00M	7214672.54	2179824.03
	1389.00	0.75	164.00	1388.91	14.70	-14.74	4.23	15.33	164.00	0.05	164.00M	7214667.42	2179825.62
	1853.00	0.25	164.00	1852.89	18.58	-18.63	5.34	19.38	164.00	0.11	164.00M	7214663.56	2179826.82
	2381.00	1.75	164.00	2380.79	27.42	-27.49	7.88	28.60	164.00	0.28	164.00M	7214654.76	2179829.55
	2567.00	3.50	164.00	2566.59	35.58	-35.68	10.23	37.12	164.00	0.94	164.00M	7214646.62	2179832.07
	2663.00	3.25	164.00	2662.42	41.00	-41.11	11.79	42.77	164.00	0.26	164.00M	7214641.22	2179833.75
	2754.00	2.50	164.00	2753.31	45.38	-45.50	13.05	47.33	164.00	0.82	164.00M	7214636.87	2179835.10
	2846.00	2.00	164.00	2845.24	48.84	-48.97	14.04	50.94	164.00	0.54	164.00M	7214633.42	2179836.17
	3094.00	1.25	164.00	3093.13	55.58	-55.73	15.98	57.98	164.00	0.30	164.00M	7214626.70	2179838.25
	3622.00	1.50	164.00	3620.98	67.73	-67.91	19.47	70.65	164.00	0.05	164.00M	7214614.60	2179842.01
	3897.00	1.50	164.00	3895.89	74.63	-74.83	21.46	77.85	164.00	0.00	164.00M	7214607.73	2179844.14
Tie-In to Original Hole	4395.00	1.00	164.00	4393.77	85.05	-85.27	24.45	88.71	164.00	0.10	147.00M	7214597.35	2179847.36
	4694.00	0.00	147.00	4692.75	87.55	-87.78	25.17	91.32	164.00	0.33	147.00M	7214594.86	2179848.13
KOP-Build 11.38/100ft	4695.00	0.00	147.00	4693.75	87.55	-87.78	25.17	91.32	164.00	0.00	147.00M	7214594.86	2179848.13
G1 Lime Top	*5395.03*	*79.68*	*147.00*	*5189.00*	*500.71*	*-434.30*	*250.20*	*501.22*	*150.05*	*11.38*	*0.00G*	*7214253.30*	*2180080.56*
Hold 147 azm	5498.04	91.40	147.00	5197.00	603.23	-520.28	306.04	603.62	149.54	11.38	0.00G	7214168.55	2180138.23
PBHL/TD	8098.04	91.40	147.00	5133.48	3202.36	-2700.17	1721.68	3202.36	147.48	0.00	0.00G	7212019.89	2181600.41

Survey Type: Non-Def Proposal

Survey Error Model: **SLB ISCWSA version 22 *** 3-D 95.00% Confidence 2.7955 sigma**

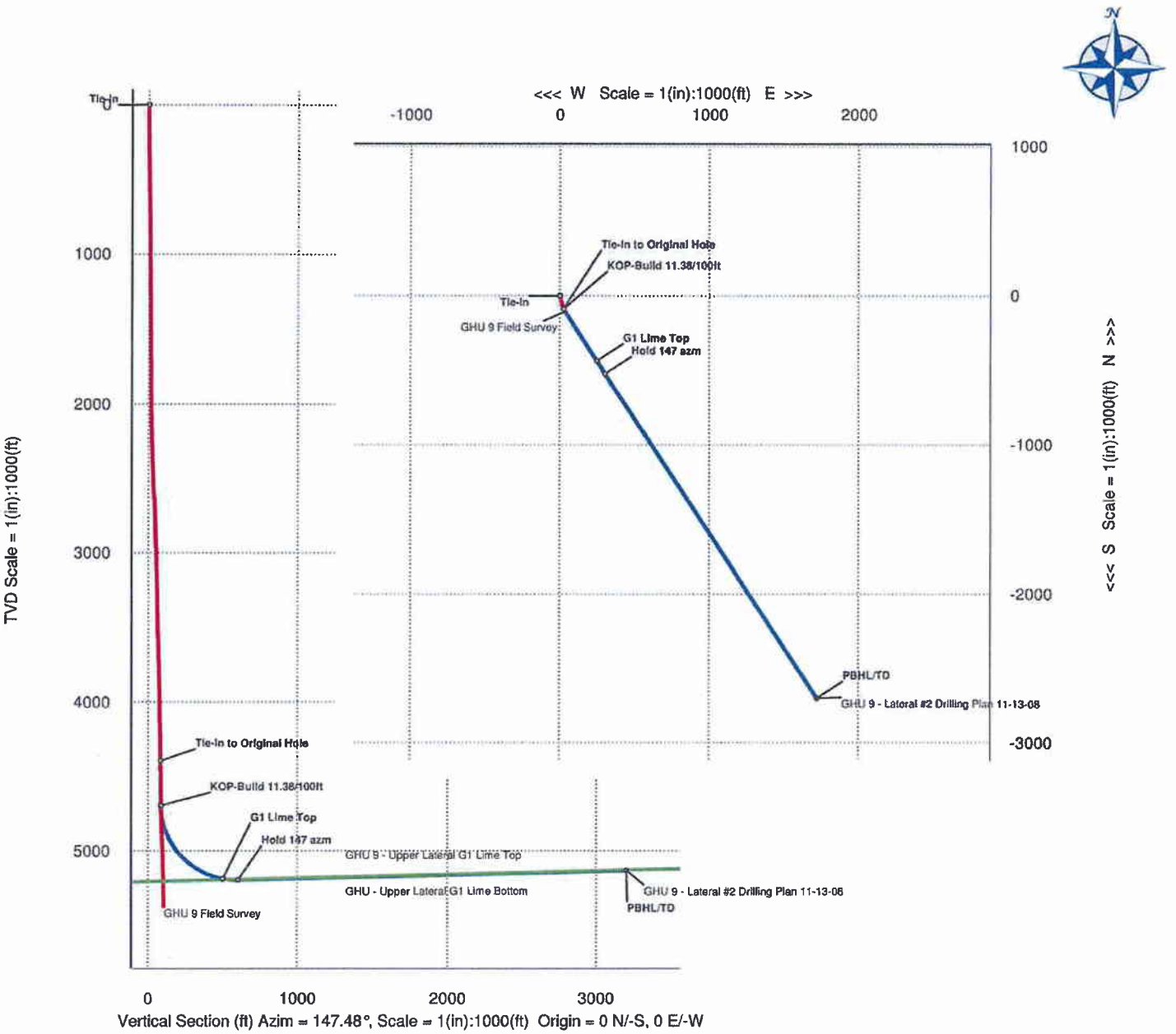
Surveying Prog:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Borehole -> Survey
-19.00	0.00	Act-Stns	SLB_UNKNOWN (default tool used)	Original Hole -> GHU 9 Field Survey
0.00	4000.00	Act-Stns	SLB_PHOTO-MSS	Original Hole -> GHU 9 Field Survey
4000.00	4395.00	1/100.00	SLB_PHOTO-MSS	Original Hole -> GHU 9 Field Survey
4395.00	8098.04	1/100.00	SLB_MWD-STD	Lateral 2(est RKB) -> GHU 9 - Lateral #2 Drilling Plan 11-13-08

QUESTAR

WELL	FIELD	STRUCTURE
GHU 9 Lateral #2 Plan	Uinta	Gypsum Hills

Magnetic Parameters				Surface Location				NAD83 Utah State Planes, Central Zone, US Foot				Miscellaneous			
Model:	IGRF 2005	Dip:	65 019°	Date:	November 13, 2008	Lat:	N40 6 38 734	Northing:	7214682 07 ftUS	Grid Conv:	+1 23551587°	Slot:	GHU 9	TVD Ref:	KB (4699 00 ft above MSL)
		Mag Dec:	+11 439°	FS:	52664 7 nT	Lon:	W109 34 16 502	Easting:	2179831 08 ftUS	Scale Fact:	0 999216027	Plan:	GHU 9 - Lateral #2 Drilling Plan 11-13-08		November 19, 2008



Legend

- GHU 9 - Lateral #2 Drilling Plan 11-13-08
- GHU 9 Field Survey
- GHU - Upper Lateral G1 Lime Bottom
- GHU 9 - Upper Lateral G1 Lime Top

True North

Tot Corr (M->T +11.4390°)

Mag Dec (+11.439°)

Quality Control

Date Drawn: Wed 03:41 PM November 19, 2008

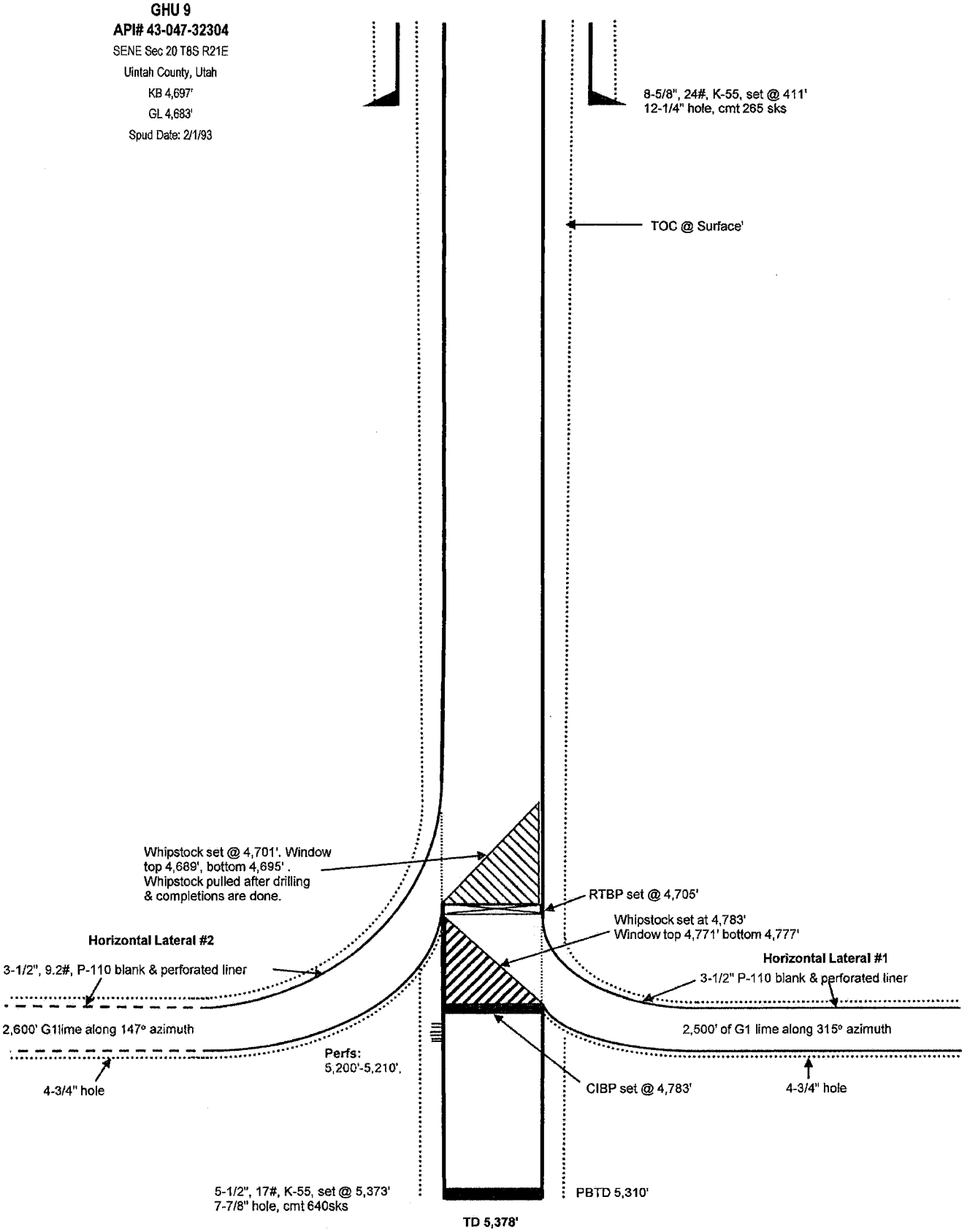
Drawn by: Current User

Checked by:

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In to Original Hole	4395.00	1.00	164.00	4393.77	85.05	-85.27	24.45	
KOP-Build 11.38/100ft	4695.00	0.00	147.00	4693.75	87.55	-87.78	25.17	0.00
G1 Lime Top	5395.03	79.68	147.00	5189.00	500.71	-434.30	250.20	11.38
Hold 147 azm	5498.04	91.40	147.00	5197.00	603.23	-520.28	306.04	11.38
PBHL/TD	8098.04	91.40	147.00	5133.48	3202.36	-2700.17	1721.68	0.00

Proposed
GHU 9
API# 43-047-32304
SENE Sec 20 T8S R21E
Uintah County, Utah
KB 4,697'
GL 4,683'
Spud Date: 2/1/93



QUESTAR EXPLR. & PROD.

GH #9

LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T8S, R21E, S.L.B.&M.

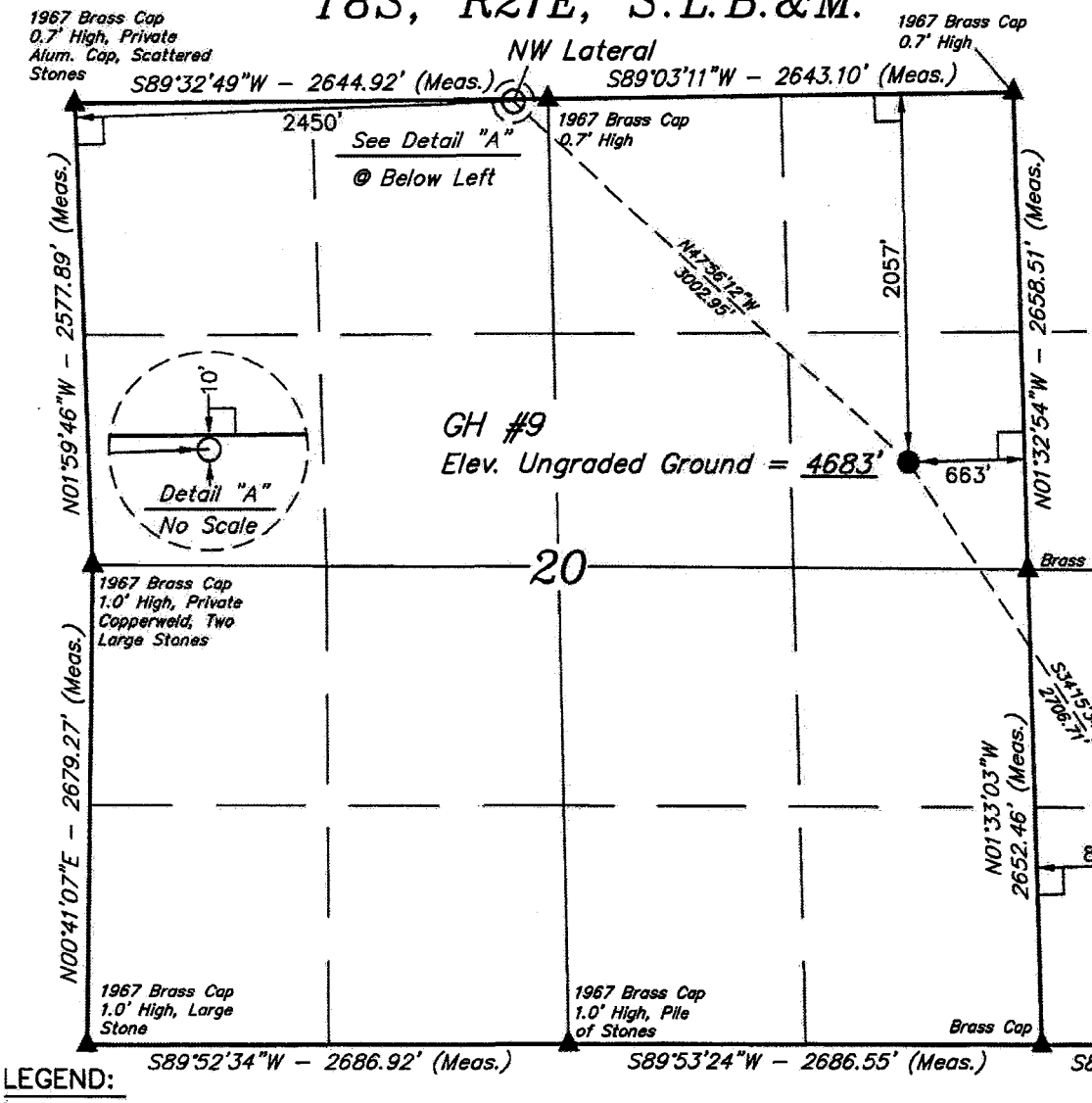
PHOTO: VIEW FROM CORNER #5 TO WELL HEAD **CAMERA ANGLE: WESTERLY**

PHOTO: VIEW OF EXISTING ACCESS **CAMERA ANGLE: SOUTHWESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS	11 MONTH	07 DAY	08 YEAR	PHOTO
TAKEN BY: J.W.	DRAWN BY: J.J.	REVISED: 00-00-00		

T8S, R21E, S.L.B.&M.



QUESTAR EXPLR. & PROD.

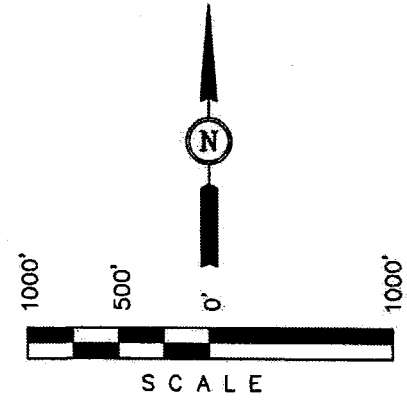
Well location, GH #9, located as shown in the SE 1/4 NE 1/4 of Section 20, T8S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 161319
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

- = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET SE LATERAL)	NAD 83 (TARGET NW LATERAL)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°06'15.03" (40.104175) LONGITUDE = 109°33'56.62" (109.565728)	LATITUDE = 40°06'56.98" (40.115828) LONGITUDE = 109°34'44.96" (109.579156)	LATITUDE = 40°06'37.12" (40.110311) LONGITUDE = 109°34'16.25" (109.571181)
NAD 27 (TARGET SE LATERAL)	**NAD 27 (TARGET NW LATERAL)**	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°06'15.16" (40.104211) LONGITUDE = 109°33'54.14" (109.565039)	LATITUDE = 40°06'57.11" (40.115864) LONGITUDE = 109°34'42.47" (109.578464)	LATITUDE = 40°06'37.25" (40.110347) LONGITUDE = 109°34'13.76" (109.570489)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

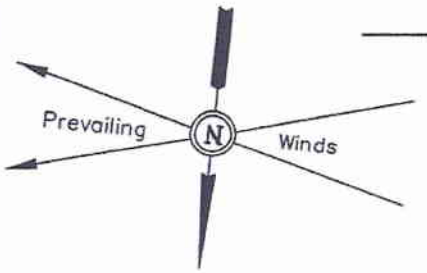
SCALE: 1" = 1000'	DATE SURVEYED: 11-04-08	DATE DRAWN: 11-06-08
PARTY: J.W. A.G. S.L.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: QUESTAR EXPLR. & PROD.	

QUESTAR EXPLR. & PROD.

LOCATION LAYOUT FOR

GH #9
SECTION 20, T8S, R21E, S.L.B.&M.
2057' FNL 663' FEL

FIGURE #1



SCALE: 1" = 50'
DATE: 11-06-08
Drawn By: S.L.

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

F-0.1'
El. 82.7'

F-0.1'
El. 82.7'

F-0.1'
El. 82.7'

Existing 2" Pipeline

Sta. 3+50

Edge of Existing Well Pad

EXISTING WELL PAD

175'

Approx. Toe of Fill Slope

PIPE TUBS

CATWALK

PIPE RACKS

FLARE PIT

F-0.6'
El. 82.2'

GRADE
El. 82.8'

RIG

Sta. 1+75

100'

32'

70'

El. 82.5'
C-14.7'
(btm. pit)

MUD TANKS

DOG HOUSE

TOILET

F-0.8'
El. 82.0'

F-0.8'
El. 82.0'

SLOPE 1-1/2 :1

LIGHT PLANT

BOILER

TRAILER

Total Pit Capacity W/2' of Freeboard = 10,690 Bbls. ± Total Pit Volume = 2,820 Cu. Yds.

10' WIDE BENCH / DIKE

135'

MUD TANKS

PUMP HOUSE

COMPRESSOR

WATER TANK

BOOSTER

RESERVE PITS
(15' Deep)

Reserve Pit Backfill & Spoils Stockpile

Existing Pipelines

Sta. 0+75

175'

El. 82.8'
C-15.0'
(btm. pit)

TRASH

EXISTING ROAD

F-0.4'
El. 82.4'

PROPANE STORAGE

50'

C-0.3'
El. 83.1'

Sta. 0+00

F-0.7'
El. 82.1'

Existing 3" Pipeline

C-0.1'
El. 82.9'

Approx. Top of Cut Slope

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4682.8'
FINISHED GRADE ELEV. AT LOC. STAKE = 4682.8'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

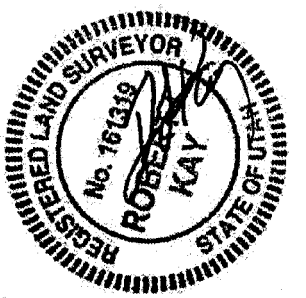
QUESTAR EXPLR. & PROD.

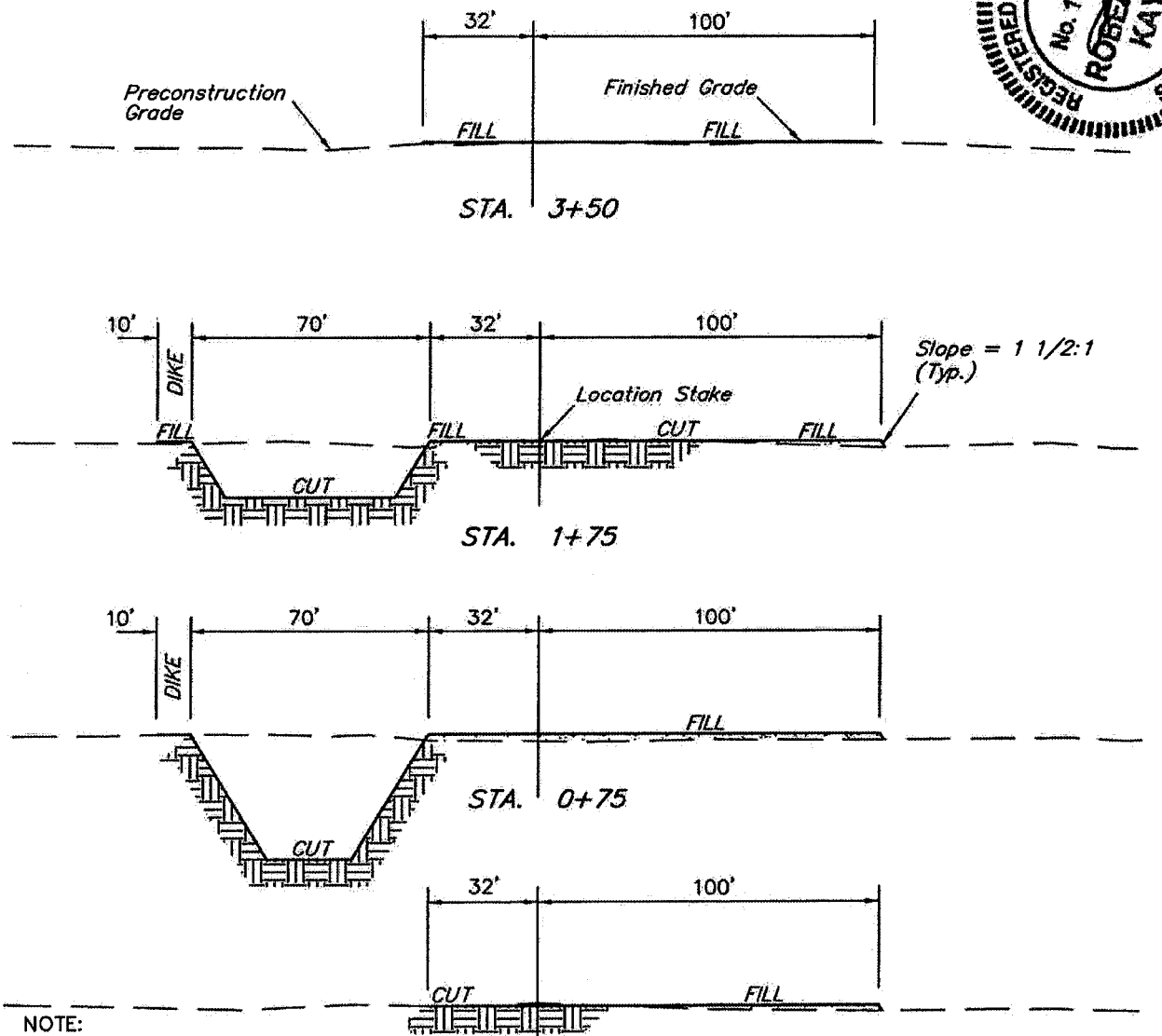
TYPICAL CROSS SECTIONS FOR

GH #9
SECTION 20, T8S, R21E, S.L.B.&M.
2057' FNL 663' FEL

FIGURE #2

1" = 20'
X-Section Scale
1" = 50'
DATE: 11-06-08
Drawn By: S.L.





NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 230 Cu. Yds.
Remaining Location = 2,730 Cu. Yds.
TOTAL CUT = 2,960 CU.YDS.
FILL = 1,380 CU.YDS.

APPROXIMATE ACREAGES

EXISTING WELL SITE DISTURBANCE = ±1.599 ACRES
PROPOSED WELL SITE DISTURBANCE = ±0.280 ACRES
TOTAL = ±1.879 ACRES

Excess Material = 1,580 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 1,640 Cu. Yds.
DEFICIT UNBALANCE (After Interim Rehabilitation) = <60> Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

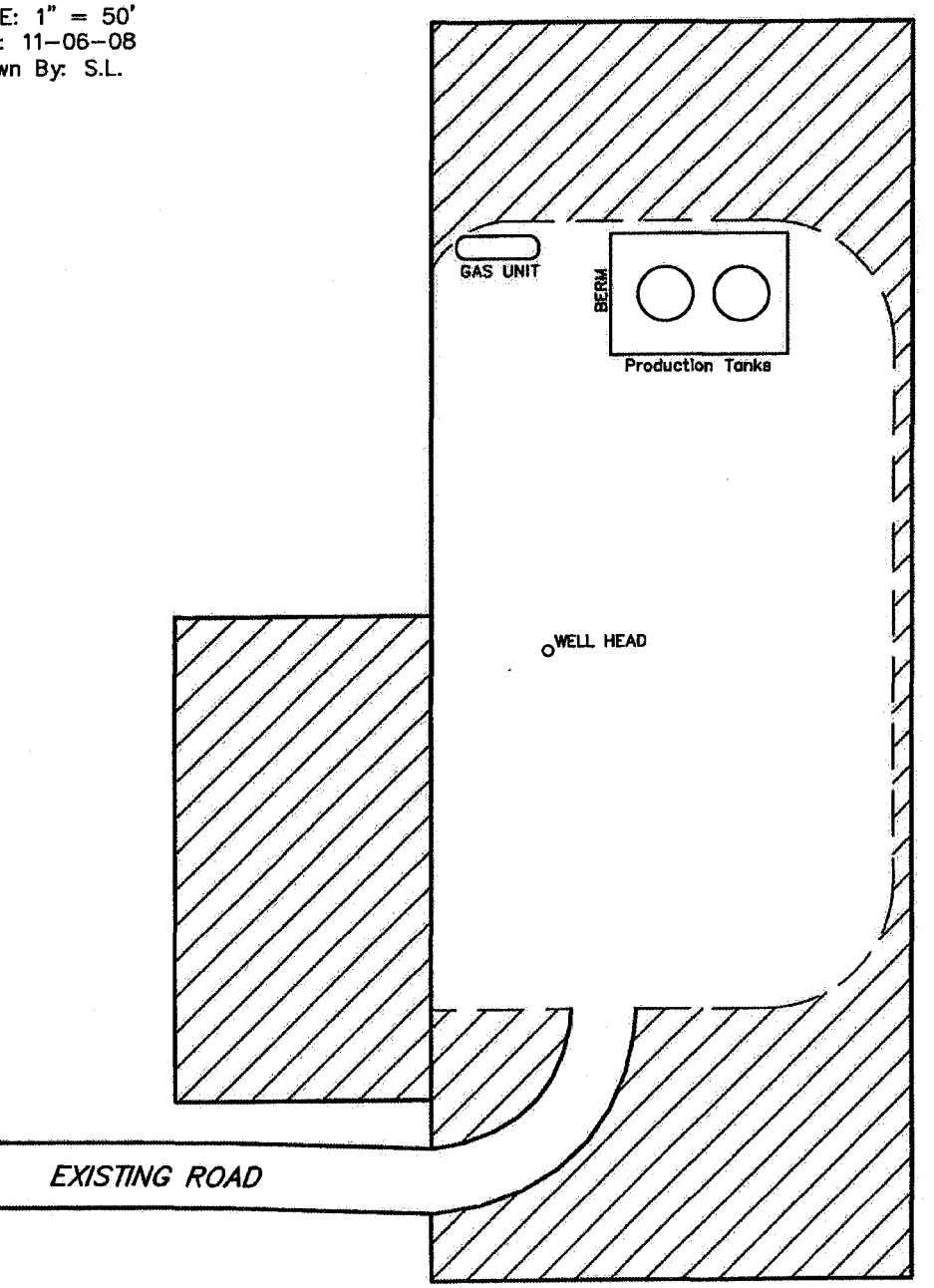
QUESTAR EXPLR. & PROD.

INTERIM RECLAMATION PLAN FOR

GH #9
SECTION 20, T8S, R21E, S.L.B.&M.
2057' FNL 663' FEL

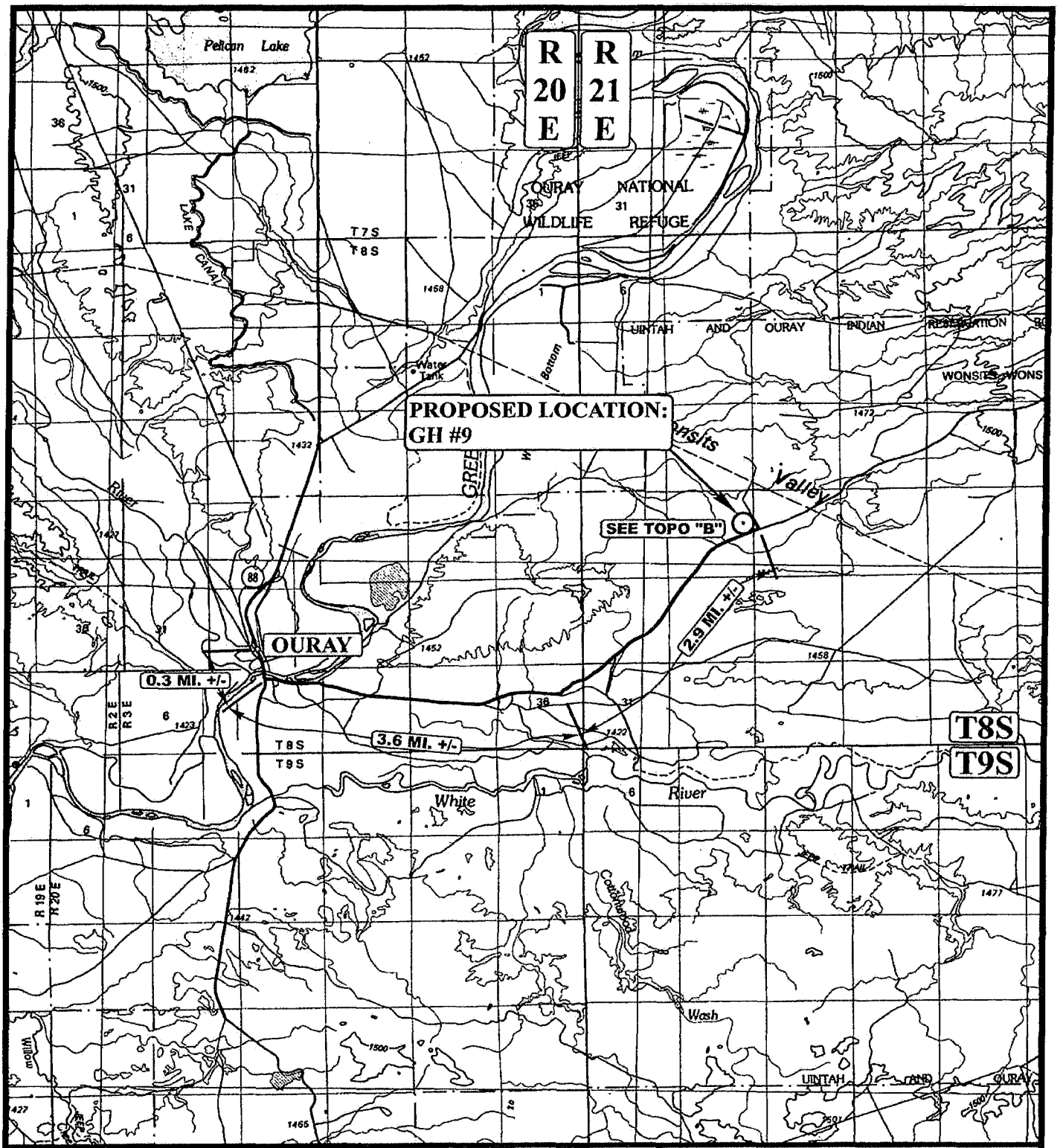
FIGURE #3

SCALE: 1" = 50'
DATE: 11-06-08
Drawn By: S.L.



INTERIM RECLAMATION

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*



LEGEND:

⊙ PROPOSED LOCATION

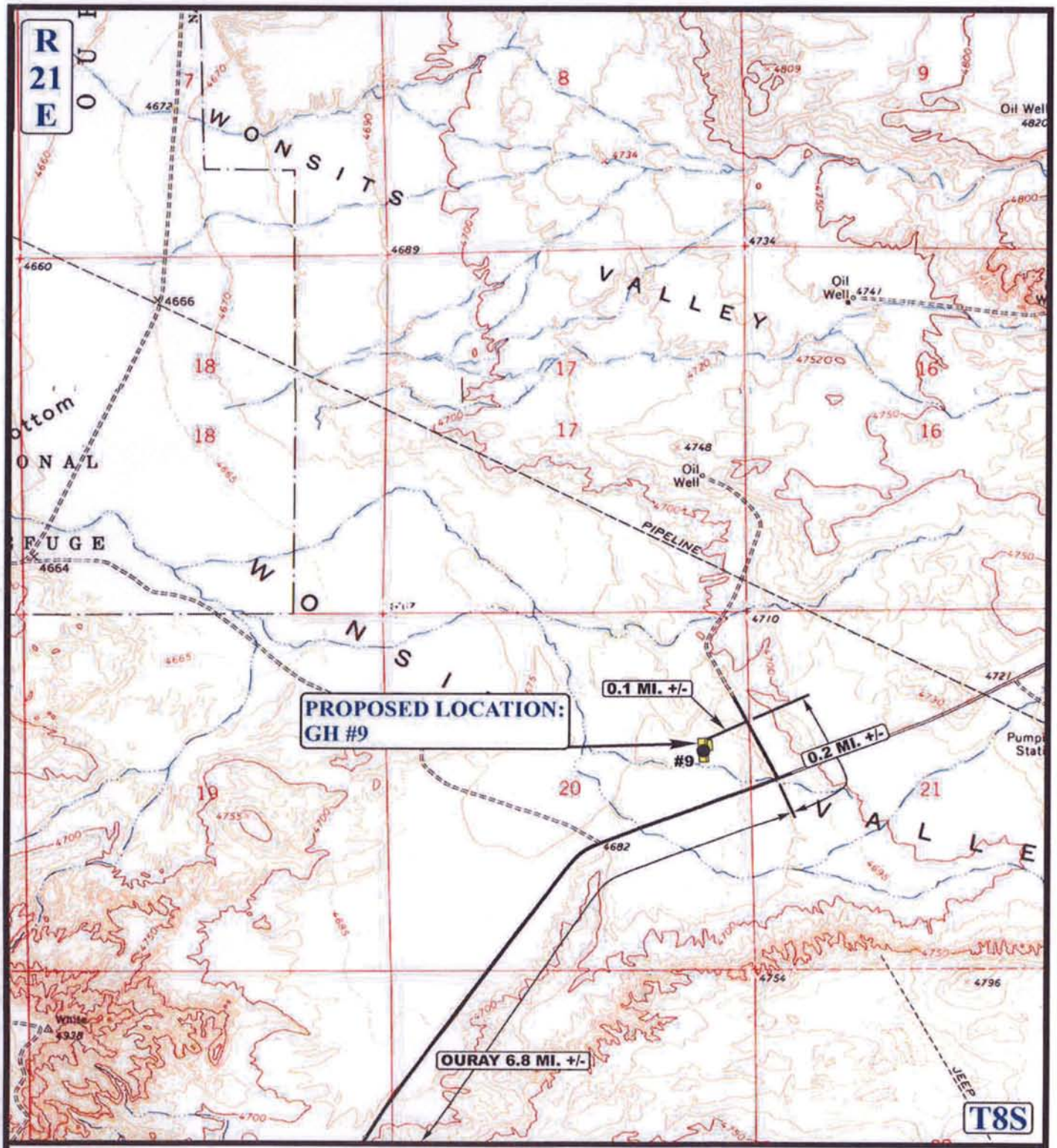
N

QUESTAR EXPLR. & PROD.

GH #9
SECTION 20, T8S, R21E, S.L.B.&M.
2057' FNL 663' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	07 DAY	08 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: J.J.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

QUESTAR EXPLR. & PROD.

GH #9

SECTION 20, T8S, R21E, S.L.B.&M.

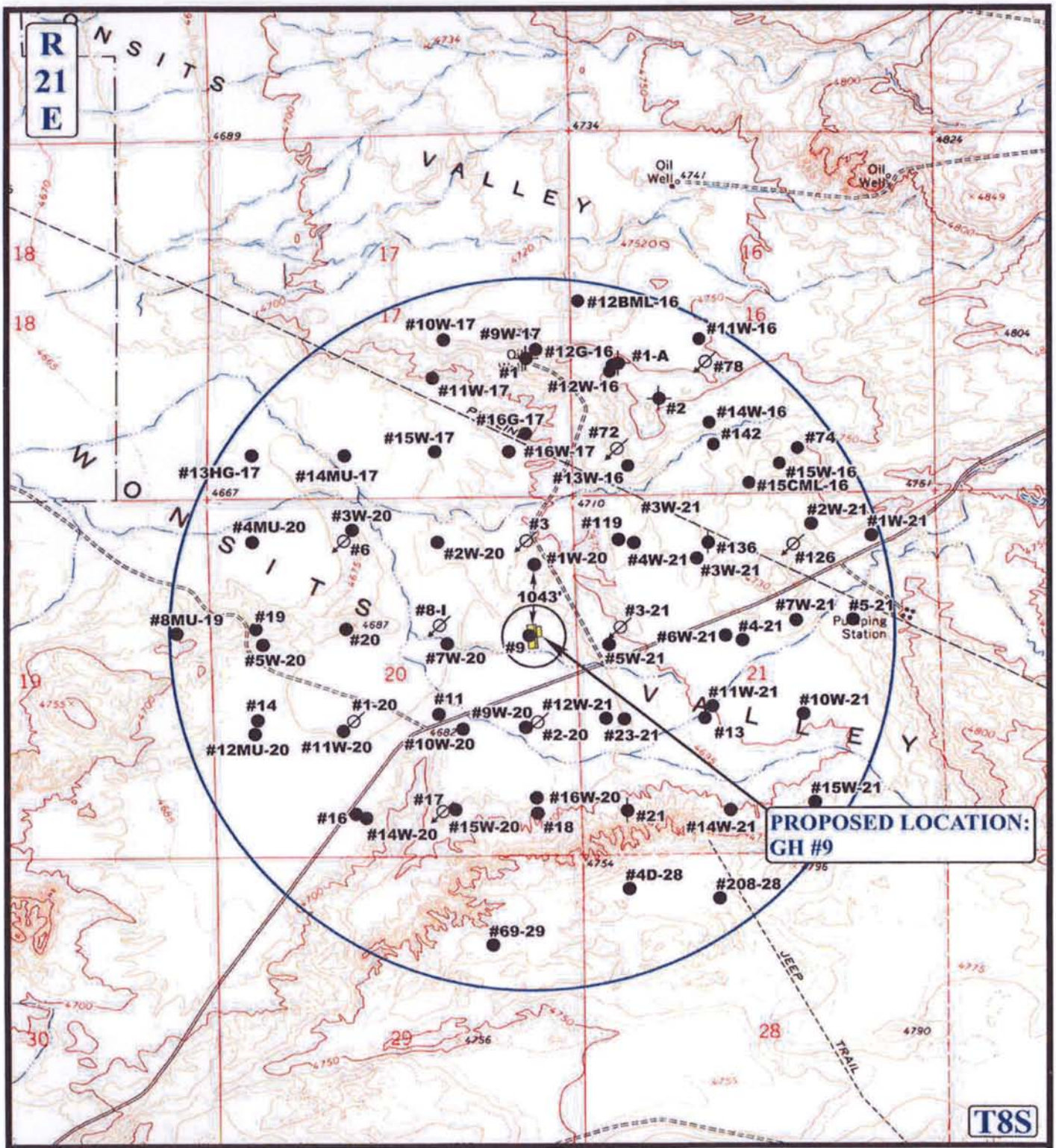
2057' FNL 663' FEL

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	07 DAY	08 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: J.J.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

QUESTAR EXPLR. & PROD.

GH #9
SECTION 20, T8S, R21E, S.L.B.&M.
2057' FNL 663' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	07 DAY	08 YEAR
SCALE: 1" = 2000'	DRAWN BY: J.J.	REVISED: 00-00-00	C TOPO

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/20/2008

API NO. ASSIGNED: 43-047-32304

WELL NAME: GH 9
OPERATOR: QUESTAR EXPLORATION & (N5085)
CONTACT: LAURA BILLS

PHONE NUMBER: 435-781-4331

PROPOSED LOCATION:
SENE 20 080S 210E
SURFACE: 2057 FNL 0663 FEL
BOTTOM: 0010 FNL 2450 FWL
COUNTY: UINTAH
LATITUDE: 40.11020 LONGITUDE: -109.5705
UTM SURF EASTINGS: 621834 NORTHINGS: 4440758
FIELD NAME: GYPSUM HILLS (610)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
LEASE NUMBER: U-0140740
SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: GRRV
COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat
✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ESB000024)
N/ Potash (Y/N)
N Oil Shale 190-5 (B) or 190-3 or 190-13
✓ Water Permit
(No. 49-2153)
N RDCC Review (Y/N)
(Date:)
N/A Fee Surf Agreement (Y/N)
N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3. * Horizontal
Unit: GYPSUM HILLS (GRRV)
___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
✓ Drilling Unit
Board Cause No: 253-01
Eff Date: 6-14-2004
Siting: Suspends General Siting
___ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1- Federal Approval

API Number: 4304732304

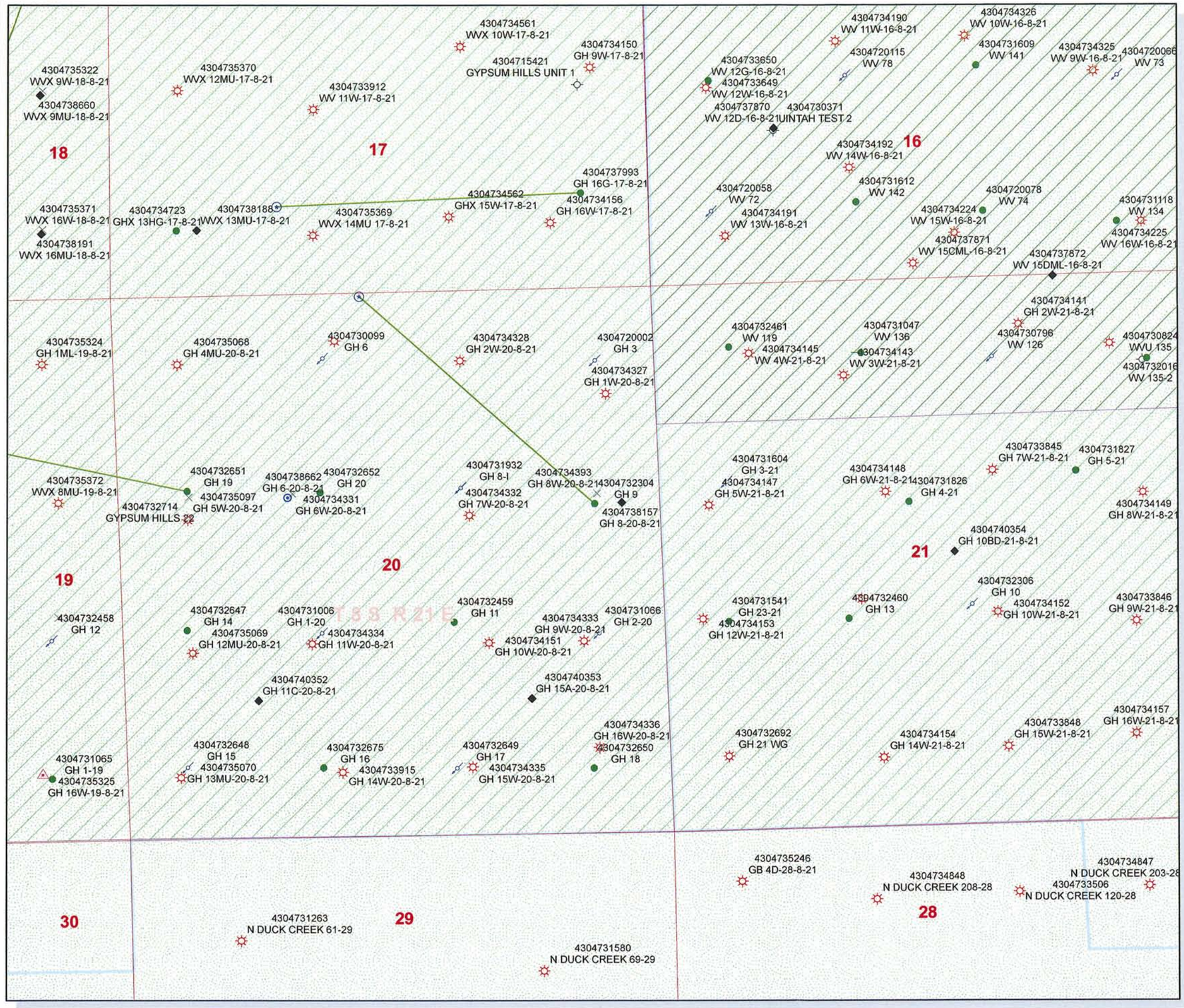
Well Name: GH 9

Township 08.0 S Range 21.0 E Section 20

Meridian: SLBM

Operator: QUESTAR EXPLORATION & PRODUCTION CO

Map Prepared:
Map Produced by Diana Mason



Units

STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS
- ACTIVE
- COMBINED
- Sections
- Township

Wells Query Events

<all other values>

GIS_STAT_TYPE
- <Null>
- APD
- DRL
- GI
- GS
- LA
- NEW
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WD
- WI
- WS

1,300 650 0 1,300 Feet

1:12,000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

December 2, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Gypsum Hills Unit Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following horizontal re-entries are planned for calendar year 2008 within the Gypsum Hills Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION

(Proposed PZ Green River/Horizontal)

43-047-32304 GH 9 Sec 20 T08S R21E 2057 FNL 0663 FEL
LAT # 1 Sec 20 T08S R21E 0010 FNL 2450 FWL
LAT # 2 Sec 21 T08S R21E 1000 FSL 0800 FWL

43-047-34723 GHX 13HG-17-8-21 Sec 17 T08S R21E 0675 FSL 0661 FWL
LAT # 1 Sec 19 T08S R21E 2000 FNL 1000 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Gypsum Hills Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

JON M. HUNTSMAN, JR.
Governor
GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

December 2, 2008

Questar Exploration & Production Co.
11002 E 17500 S
Vernal, UT 84078

Re: GH 9 Well, Surface Location 2057' FNL, 663' FEL, SE NE, Sec. 20, T. 8 South, R. 21 East, (1) Bottom Location 10' FNL, 2450' FWL, NE NW, Sec. 20, T. 8 South, R. 21 East, (2) Bottom Location 1000' FSL, 800' FWL, SW SW, Sec. 21, T. 8 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32304.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Field Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Operator: Questar Exploration & Production Co.

Well Name & Number GH 9

API Number: 43-047-32304

Lease: U-0140740

Surface Location:	SE NE	**Sec.**	20	**T.**	8 South	**R.**	21 East
(1) Bottom Location:	NE NW	**Sec.**	20	**T.**	8 South	**R.**	21 East
(2) Bottom Location:	SW SW	**Sec.**	21	**T.**	8 South	**R.**	21 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   Notify the Division within 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

API Well No: 43047323040000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: U-0140740

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GYPSUM HILLS (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GH 9

2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO

9. API NUMBER: 43047323040000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, UT, 84078 **PHONE NUMBER:** 435 781-4362 Ext

9. FIELD and POOL or WILDCAT: GYPSUM HILLS

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2057 FNL 0663 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 20 Township: 08.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/30/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Questar Exploration and Production Company hereby requests a one year extension for the APD on the above captioned well.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 30, 2009

By: Dustin Doucet

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jan Nelson	435 781-4331	Permit Agent
SIGNATURE N/A		**DATE** 11/30/2009

RECEIVED November 30, 2009

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047323040000

API: 43047323040000
Well Name: GH 9
Location: 2057 FNL 0663 FEL QTR SENE SEC 20 TWNP 080S RNG 210E MER S
Company Permit Issued to: QUESTAR EXPLORATION & PRODUCTION CO
Date Original Permit Issued: 12/2/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Jan Nelson **Date:** 11/30/2009
Title: Permit Agent **Representing:** QUESTAR EXPLORATION & PRODUCTION CO

Date: November 30, 2009

By: Dustin Doucet

RECEIVED November 30, 2009

API Well No: 43047323040000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: U-0140740

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GYPSUM HILLS (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GH 9

2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO

9. API NUMBER: 43047323040000

3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, UT, 84078

PHONE NUMBER: 435 781-4362 Ext

9. FIELD and POOL or WILDCAT: GYPSUM HILLS

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2057 FNL 0663 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 20 Township: 08.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 4/20/2010	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Questar Exploration and Production Company (QEP) drilled Lateral #2 shallower than anticipated. The projected TD was 8,098', QEP TD this well at 7,766'. Detail will follow in 3160-4 Well Completion Report.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 21, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jan Nelson	435 781-4331	Permit Agent
SIGNATURE N/A		**DATE** 4/20/2010

RECEIVED April 20, 2010

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET **(for state use only)**

ROUTING
CDW

Change of Operator (Well Sold) **X - Operator Name Change**

The operator of the well(s) listed below has changed, effective: **6/14/2010**

FROM: (Old Operator):	**TO:** (New Operator):
N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048	N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265 Phone: 1 (303) 308-3048

CA No. **Unit:** **GYPSUM HILLS (GRRV)**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/24/2010
4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
5a. (R649-9-2)Waste Management Plan has been received on: Requested
5b. Inspections of LA PA state/fee well sites complete on: n/a
5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/30/2010
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/30/2010
3. Bond information entered in RBDMS on: 6/30/2010
4. Fee/State wells attached to bond in RBDMS on: 6/30/2010
5. Injection Projects to new operator in RBDMS on: 6/30/2010
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024
2. Indian well(s) covered by Bond Number: 965010693
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	See attached
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	See attached
7. UNIT or CA AGREEMENT NAME:	See attached
8. WELL NAME and NUMBER:	See attached
9. API NUMBER:	Attached
10. FIELD AND POOL, OR WILDCAT:	See attached

1 TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER

2 NAME OF OPERATOR: Questar Exploration and Production Company N5085

3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 672-6900

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached COUNTY: Attached

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/14/2010	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Operator Name Change
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:
Federal Bond Number: 965002976 (BLM Reference No. ESB000024) N3700
Utah State Bond Number: ~~965003033~~ 965010695
Fee Land Bond Number: ~~965003033~~ 965010695
BIA Bond Number: ~~799446~~ 965010693

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) Morgan Anderson TITLE Regulatory Affairs Analyst

SIGNATURE Morgan Anderson DATE 6/23/2010

(This space for State use only)

RECEIVED
JUN 2 8 2010
DIV. OF OIL, GAS & MINING

APPROVED 6/30/2009
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(5/2000) (See Instructions on Reverse Side)

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
GYPSUM HILLS (GRRV)
effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
GH 4	19	080S	210E	4304730028	5355	Federal	OW	P	
GH 1-19	19	080S	210E	4304731065	5355	Federal	OW	P	
GH 23-21	21	080S	210E	4304731541	5355	Federal	OW	P	
GH 4-21	21	080S	210E	4304731826	5355	Federal	OW	P	
GH 5-21	21	080S	210E	4304731827	5355	Federal	OW	P	
GH 9	20	080S	210E	4304732304	5355	Federal	OW	DRL	C
GH 11	20	080S	210E	4304732459	5355	Federal	OW	P	
GH 13	21	080S	210E	4304732460	5355	Federal	OW	P	
GH 14	20	080S	210E	4304732647	5355	Federal	OW	P	
GH 18	20	080S	210E	4304732650	5355	Federal	OW	P	
GH 19	20	080S	210E	4304732651	5355	Federal	OW	P	
GH 20	20	080S	210E	4304732652	5355	Federal	OW	P	
GH 16	20	080S	210E	4304732675	5355	Federal	OW	P	
GH 10W-19-8-21	19	080S	210E	4304733528	12736	Federal	GW	P	
GH 10G-19-8-21	19	080S	210E	4304733566	5355	Federal	OW	P	
WV 11W-17-8-21	17	080S	210E	4304733912	13228	Federal	GW	P	
WV 5W-17-8-21	17	080S	210E	4304733954	13332	Federal	GW	P	
WV 7W-17-8-21	17	080S	210E	4304733956	13330	Federal	GW	P	
GH 9W-17-8-21	17	080S	210E	4304734150	13392	Federal	GW	P	
GH 16W-17-8-21	17	080S	210E	4304734156	13354	Federal	GW	P	
WVX 10W-17-8-21	17	080S	210E	4304734561	13744	Federal	GW	P	
GHX 15W-17-8-21	17	080S	210E	4304734562	13674	Federal	GW	P	
GHX 13HG-17-8-21	17	080S	210E	4304734723	5355	Federal	OW	P	
GH 1G-17-8-21	17	080S	210E	4304734927	5355	Federal	OW	P	
WVX 2W-17-8-21	17	080S	210E	4304734928	14253	Federal	GW	P	
WVX 8W-17-8-21	17	080S	210E	4304734929	13792	Federal	GW	P	
GH 4MU-20-8-21	20	080S	210E	4304735068	14213	Federal	GW	P	
GH 13MU-20-8-21	20	080S	210E	4304735070	14817	Federal	GW	P	
GH 5W-20-8-21	20	080S	210E	4304735097	14557	Federal	GW	P	
WVX 3MU-17-8-21	17	080S	210E	4304735318	14113	Federal	GW	P	
GH 15ML-18-8-21	18	080S	210E	4304735323	15483	Federal	GW	P	
GH 1ML-19-8-21	19	080S	210E	4304735324	14824	Federal	GW	P	
WVX 14MU 17-8-21	17	080S	210E	4304735369	14098	Federal	GW	P	
WVX 12MU-17-8-21	17	080S	210E	4304735370	15108	Federal	GW	P	
WVX 8MU-19-8-21	19	080S	210E	4304735372	14241	Federal	GW	P	
GH 10ML-18-8-21	18	080S	210E	4304735391	15482	Federal	GW	P	
GH 8G-17-8-21	17	080S	210E	4304737992	5355	Federal	OW	P	
GH 16G-17-8-21	17	080S	210E	4304737993	5355	Federal	OW	P	
GH 8G-18-8-21	18	080S	210E	4304738661		Federal	GW	APD	C
GH 6-20-8-21	20	080S	210E	4304738662	17041	Federal	GW	P	

Bonds: BLM = ESB000024
BIA = 956010693
State = 965010695

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov/ut/st/en.html

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals Roger L Bankert

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

RECEIVED
AUG 16 2010
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0140740
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: GYPSUM HILLS
8. WELL NAME and NUMBER: GH 9
9. API NUMBER: 4304732304
10. FIELD AND POOL, OR WILDCAT: GYPSUM HILLS
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 20 T8S R21
12. COUNTY: UINTAH
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☑ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER Dual Laterals

2. NAME OF OPERATOR: QEP ENERGY COMPANY

3. ADDRESS OF OPERATOR: 11002 E 17500 S CITY VERNAL STATE UT ZIP 84078 PHONE NUMBER: (435) 781-4342

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2057' FNL, 663' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: NW TD 8255', 104' FNL, 2216' FWL, NENW
AT TOTAL DEPTH: NW TD 8255', 104' FNL, 2216' FWL, NENW 105 FNL 2224 FWL NENW LAT#1

14. DATE SPUDDED: 3/25/2010
15. DATE T.D. REACHED: 4/13/2010
16. DATE COMPLETED: 6/22/2010 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): KB - 14'

18. TOTAL DEPTH: MD ~~5,378~~ 8255 TVD ~~5290~~
19. PLUG BACK T.D.: MD 5,310 TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
No new logs

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
4.75	3.5	9.2	5,422	7,682					
4.75	3.5	9.2	5,496	7,757					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4,732							

26. PRODUCING INTERVALS / 27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) G-1 Lime Lat #1	4,858	4,862			5,422 7,682			Open ☑ Squeezed ☐
(B) G-1 Lime Lat #2	4,775	4,784			5,496 7,757			Open ☑ Squeezed ☐
(C)								Open ☐ Squeezed ☐
(D)								Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4858' - 4862' Lateral #1	Acidize w/ 35,000 gals of 15% HCL
4775' - 4784' Lateral #2	Acidize w/ 14,000 gals of 15% HCL

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: Producing

RECEIVED
JUL 19 2010
DIV. OF OIL, GAS & MINING

(5/2000) (CONTINUED ON BACK)

CONFIDENTIAL

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
4/29/2010	5/2/2010	24		256	32	165	

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
	150	45								Open

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
G-1 Lime					

35. ADDITIONAL REMARKS (include plugging procedure)

MD 8255 TVD 5290 MD 7766 TVD 5143

Dual Lateral Oil Well. See Attachment Page One for more Lateral & DOFP info. See Well File.

Lateral #1 BHL: 0105 FNL 2224 FWL Lateral #2 BHL: 0982 FSL 0984 FWL

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Dahn Caldwell TITLE Office Administrator

SIGNATURE Dahn Caldwell DATE 7/15/2010

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

CONFIDENTIAL

(5/2000)

GH 9 – DUAL LATERAL WELL

ATTACHMENT PAGE ONE

#4 - Lateral #1 – (nw) TD @ 8255', BHL - NENW, 20-T8S-R21E, 104' FNL, 2216' FWL

Lateral #2 – (se) TD @ 7766', BHL – SWSW, 21-T8S-R21E, 953' FSL, 987' FWL

#16 & #31 - Lateral #1 was completed on April 28, 2010. So the DOFP was 4/29/10. Lateral #2 was completed on June 22, 2010.

#27 – Perforation Record – 3-1/2", 9.2#, P-110, Ultra Flush – Alternating joints of blank & perforated on both laterals.

CONFIDENTIAL

GH 9 - ST1 off Lat 1 - Field Survey Survey Report

Report Date:	June 22, 2010	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	QEP ENERGY	**Vertical Section Azimuth:**	309.110°
Field:	Uinta	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	Gypsum Hills / GHU 9	**TVD Reference Datum:**	KB
Well:	GH 9	**TVD Reference Elevation:**	4699.5 ft relative to MSL
Borehole:	ST1 off Lat 1	**Sea Bed / Ground Level Elevation:**	4718.000 ft relative to MSL
UWI/API#:		**Magnetic Declination:**	11.845°
Survey Name / Date:	GH 9 - ST1 off Lat 1 - Field Survey / April 5, 2010	**Total Field Strength:**	52961.849 nT
Tort / AHD / DDI / ERD ratio:	230.074° / 3251.23 ft / 6.066 / 0.615	**Magnetic Dip:**	66.094°
Grid Coordinate System:	NAD83 Utah State Planes, Central Zone, US Feet	**Declination Date:**	April 05, 2010
Location Lat/Long:	N 40 6 37.120, W 109 34 16.250	**Magnetic Declination Model:**	IGRF 2005
Location Grid N/E Y/X:	N 7214721.537 ftUS, E 2179839.784 ftUS	**North Reference:**	True North
Grid Convergence Angle:	+1.23556045°	**Total Corr Mag North -> True North:**	+11.845°
Grid Scale Factor:	0.99991034	**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Projected-Up	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00M	7214721.54	2179839.78
Tie-In	0.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	104.76M	7214721.54	2179839.78
	50.50	0.10	104.76	50.50	-0.04	-0.01	0.04	0.04	104.76	0.20	-90.77M	7214721.53	2179839.83
	100.50	0.04	269.23	100.50	-0.07	-0.02	0.07	0.07	108.55	0.28	150.22M	7214721.52	2179839.85
	150.50	0.10	150.22	150.50	-0.09	-0.06	0.07	0.09	130.41	0.25	150.31M	7214721.48	2179839.86
	200.50	0.20	150.31	200.50	-0.22	-0.17	0.14	0.22	142.02	0.20	117.46M	7214721.37	2179839.92
	250.50	0.13	117.46	250.50	-0.35	-0.28	0.23	0.36	140.27	0.23	-171.65M	7214721.27	2179840.02
	300.50	0.12	188.35	300.50	-0.43	-0.35	0.27	0.45	142.44	0.29	-132.61M	7214721.19	2179840.06
	350.50	0.05	227.39	350.50	-0.46	-0.42	0.25	0.49	149.42	0.17	-173.75M	7214721.12	2179840.04
	400.50	0.14	186.25	400.50	-0.49	-0.50	0.23	0.55	155.52	0.22	-150.09M	7214721.05	2179840.02
	450.50	0.13	209.91	450.50	-0.53	-0.61	0.19	0.64	162.51	0.11	-145.65M	7214720.94	2179839.99
	500.50	0.17	214.35	500.50	-0.55	-0.72	0.12	0.73	170.42	0.08	-97.41M	7214720.82	2179839.92
	550.50	0.12	262.59	550.50	-0.52	-0.78	0.03	0.79	178.02	0.25	-94.24M	7214720.75	2179839.83
	600.50	0.13	265.76	600.50	-0.44	-0.80	-0.08	0.80	185.84	0.02	-84.97M	7214720.74	2179839.72
	650.50	0.16	275.03	650.50	-0.34	-0.79	-0.21	0.82	194.65	0.08	-55.94M	7214720.74	2179839.59
	700.50	0.19	304.06	700.50	-0.20	-0.74	-0.35	0.82	205.01	0.18	-52.06M	7214720.79	2179839.45
	750.50	0.21	307.94	750.50	-0.02	-0.64	-0.49	0.80	217.33	0.05	-34.16M	7214720.89	2179839.31
	800.50	0.11	325.84	800.50	0.11	-0.54	-0.59	0.80	227.22	0.22	-38.89M	7214720.98	2179839.21
	850.50	0.15	321.11	850.50	0.22	-0.45	-0.65	0.79	235.37	0.08	-35.18M	7214721.07	2179839.14
	900.50	0.22	324.82	900.50	0.38	-0.32	-0.75	0.82	246.76	0.14	-34.86M	7214721.20	2179839.04
	950.50	0.24	325.14	950.50	0.57	-0.16	-0.87	0.88	259.67	0.04	-29.24M	7214721.36	2179838.92
	1000.50	0.28	330.76	1000.50	0.79	0.03	-0.99	0.99	272.02	0.09	-27.94M	7214721.55	2179838.80
	1050.50	0.31	332.06	1050.50	1.02	0.26	-1.11	1.14	283.25	0.06	-24.79M	7214721.77	2179838.67
	1100.50	0.38	335.21	1100.49	1.30	0.53	-1.24	1.35	293.16	0.14	-19.19M	7214722.04	2179838.53
	1150.50	0.47	340.81	1150.49	1.62	0.88	-1.38	1.63	302.42	0.20	-15.69M	7214722.38	2179838.39
	1200.50	0.50	344.31	1200.49	1.97	1.28	-1.50	1.97	310.37	0.08	-12.21M	7214722.78	2179838.25
	1250.50	0.50	347.79	1250.49	2.32	1.70	-1.61	2.34	316.60	0.06	-5.17M	7214723.20	2179838.14
	1300.50	0.53	354.83	1300.49	2.65	2.15	-1.68	2.72	322.00	0.14	-26.11M	7214723.65	2179838.06
	1350.50	0.55	333.89	1350.49	3.03	2.59	-1.80	3.16	325.17	0.39	-20.02M	7214724.09	2179837.93
	1400.50	0.39	339.98	1400.48	3.40	2.97	-1.97	3.56	326.46	0.33	-13.12M	7214724.46	2179837.75
	1450.50	0.45	346.88	1450.48	3.70	3.32	-2.07	3.91	328.05	0.16	-27.57M	7214724.81	2179837.64
	1500.50	0.47	332.43	1500.48	4.04	3.69	-2.21	4.30	329.10	0.23	-37.94M	7214725.18	2179837.50
	1550.50	0.32	322.06	1550.48	4.37	3.98	-2.39	4.64	329.04	0.33	-49.04M	7214725.47	2179837.31
	1600.50	0.34	310.96	1600.48	4.65	4.19	-2.59	4.92	328.30	0.13	-51.89M	7214725.67	2179837.11
	1650.50	0.32	308.11	1650.48	4.94	4.37	-2.81	5.20	327.28	0.05	-46.67M	7214725.85	2179836.88
	1700.50	0.36	313.33	1700.48	5.24	4.57	-3.03	5.48	326.41	0.10	-50.31M	7214726.04	2179836.65
	1750.50	0.40	309.69	1750.48	5.57	4.79	-3.28	5.80	325.56	0.09	-34.33M	7214726.25	2179836.40
	1800.50	0.15	325.67	1800.48	5.80	4.95	-3.45	6.04	325.11	0.52	14.20M	7214726.41	2179836.22
	1850.50	0.07	14.20	1850.48	5.88	5.04	-3.48	6.12	325.33	0.23	12.06M	7214726.50	2179836.19
	1900.50	0.17	12.06	1900.48	5.93	5.14	-3.46	6.19	326.04	0.20	88.52M	7214726.60	2179836.21
	1950.50	0.20	88.52	1950.48	5.89	5.21	-3.36	6.20	327.22	0.46	84.35M	7214726.68	2179836.32
	2000.50	0.28	84.35	2000.47	5.74	5.23	-3.15	6.10	328.94	0.16	49.50M	7214726.69	2179836.52
	2050.50	0.37	49.50	2050.47	5.62	5.34	-2.90	6.08	331.48	0.43	75.09M	7214726.82	2179836.77
	2100.50	0.37	75.09	2100.47	5.50	5.49	-2.63	6.09	334.45	0.33	106.59M	7214726.97	2179837.04
	2150.50	0.53	106.59	2150.47	5.19	5.47	-2.25	5.91	337.65	0.58	120.55M	7214726.95	2179837.42

2200.50	0.76	120.55	2200.47	4.65	5.23	-1.74	5.51	341.60	0.55	117.20M	7214726.73	2179837.93
2250.50	0.74	117.20	2250.46	4.01	4.92	-1.17	5.05	346.64	0.10	119.89M	7214726.43	2179838.51
2300.50	1.09	119.89	2300.46	3.22	4.53	-0.47	4.55	354.10	0.71	120.73M	7214726.06	2179839.22
2350.50	1.38	120.73	2350.45	2.16	3.99	0.46	4.01	6.61	0.58	121.20M	7214725.53	2179840.16
2400.50	1.55	121.20	2400.43	0.89	3.33	1.56	3.67	25.08	0.34	121.63M	7214724.90	2179841.27
2450.50	1.66	121.63	2450.41	-0.50	2.60	2.75	3.79	46.66	0.22	133.13M	7214724.19	2179842.48
2500.50	2.02	133.13	2500.38	-2.09	1.62	4.01	4.33	68.07	1.03	141.92M	7214723.24	2179843.76
2550.50	2.83	141.92	2550.34	-4.18	0.04	5.42	5.42	89.56	1.78	146.48M	7214721.70	2179845.20
2600.50	3.03	146.48	2600.27	-6.64	-2.03	6.91	7.20	106.39	0.61	150.21M	7214719.65	2179846.73
2650.50	3.04	150.21	2650.20	-9.14	-4.28	8.30	9.34	117.31	0.40	149.31M	7214717.43	2179848.17
2700.50	2.81	149.31	2700.14	-11.53	-6.49	9.58	11.57	124.11	0.47	148.38M	7214715.26	2179849.50
2750.50	2.53	148.38	2750.08	-13.72	-8.48	10.78	13.72	128.19	0.57	144.54M	7214713.29	2179850.75
2800.50	2.32	144.54	2800.04	-15.74	-10.25	11.95	15.74	130.61	0.53	145.92M	7214711.55	2179851.95
2850.50	1.83	145.92	2850.01	-17.48	-11.73	12.98	17.50	132.10	0.99	144.10M	7214710.09	2179853.02
2900.50	1.72	144.10	2899.98	-18.97	-13.00	13.87	19.01	133.14	0.25	141.76M	7214708.84	2179853.93
2950.50	1.62	141.76	2949.96	-20.38	-14.16	14.75	20.45	133.84	0.24	139.40M	7214707.70	2179854.83
3000.50	1.29	139.40	2999.95	-21.62	-15.15	15.55	21.71	134.24	0.67	135.20M	7214706.73	2179855.66
3050.50	1.18	135.20	3049.93	-22.69	-15.94	16.28	22.79	134.39	0.28	132.20M	7214705.95	2179856.40
3100.50	1.14	132.20	3099.92	-23.70	-16.64	17.01	23.80	134.36	0.15	142.61M	7214705.27	2179857.15
3150.50	0.98	142.61	3149.91	-24.61	-17.31	17.64	24.72	134.46	0.50	138.71M	7214704.61	2179857.79
3200.50	1.02	138.71	3199.91	-25.46	-17.99	18.20	25.58	134.67	0.16	146.16M	7214703.95	2179858.36
3250.50	1.01	146.16	3249.90	-26.32	-18.69	18.73	26.46	134.93	0.26	148.10M	7214703.26	2179858.92
3300.50	1.11	148.10	3299.89	-27.20	-19.46	19.24	27.37	135.34	0.21	156.15M	7214702.49	2179859.43
3350.50	1.00	156.15	3349.88	-28.05	-20.27	19.67	28.25	135.87	0.37	158.05M	7214701.69	2179859.88
3400.50	0.87	158.05	3399.88	-28.77	-21.03	19.99	29.01	136.45	0.27	158.21M	7214700.95	2179860.22
3450.50	0.94	158.21	3449.87	-29.46	-21.76	20.28	29.74	137.01	0.14	154.15M	7214700.22	2179860.53
3500.50	1.03	154.15	3499.86	-30.23	-22.54	20.63	30.56	137.54	0.23	145.26M	7214699.45	2179860.89
3550.50	1.04	145.26	3549.85	-31.07	-23.32	21.08	31.44	137.88	0.32	151.39M	7214698.68	2179861.36
3600.50	1.11	151.39	3599.85	-31.95	-24.12	21.57	32.36	138.19	0.27	156.98M	7214697.89	2179861.87
3650.50	1.23	156.98	3649.83	-32.88	-25.04	22.02	33.34	138.68	0.33	165.44M	7214696.98	2179862.33
3700.50	1.27	165.44	3699.82	-33.80	-26.07	22.36	34.35	139.37	0.38	171.46M	7214695.96	2179862.70
3750.50	1.16	171.46	3749.81	-34.62	-27.10	22.58	35.28	140.21	0.34	163.97M	7214694.93	2179862.94
3800.50	0.99	163.97	3799.80	-35.35	-28.02	22.77	36.11	140.90	0.44	173.36M	7214694.02	2179863.15
3850.50	1.06	173.36	3849.79	-36.03	-28.90	22.95	36.90	141.55	0.36	175.39M	7214693.15	2179863.35
3900.50	1.14	175.39	3899.79	-36.71	-29.85	23.04	37.71	142.34	0.18	172.91M	7214692.19	2179863.46
3950.50	1.19	172.91	3949.78	-37.43	-30.86	23.14	38.58	143.13	0.14	178.12M	7214691.18	2179863.59
4000.50	1.38	178.12	3999.76	-38.20	-31.98	23.23	39.52	144.01	0.45	176.26M	7214690.07	2179863.69
4050.50	1.43	176.26	4049.75	-39.01	-33.20	23.29	40.56	144.95	0.14	171.09M	7214688.85	2179863.78
4100.50	1.52	171.09	4099.73	-39.93	-34.48	23.43	41.69	145.80	0.32	167.16M	7214687.57	2179863.95
4150.50	1.63	167.16	4149.71	-40.98	-35.83	23.69	42.95	146.53	0.31	164.77M	7214686.23	2179864.24
4200.50	1.58	164.77	4199.69	-42.10	-37.19	24.03	44.28	147.13	0.17	164.00M	7214684.88	2179864.61
4250.50	1.42	164.00	4249.68	-43.17	-38.45	24.38	45.53	147.62	0.32	162.07M	7214683.63	2179864.99
4300.50	1.57	162.07	4299.66	-44.26	-39.70	24.76	46.79	148.04	0.32	158.34M	7214682.39	2179865.40
4350.50	1.46	158.34	4349.64	-45.39	-40.94	25.21	48.08	148.37	0.30	163.74M	7214681.16	2179865.87
4400.50	1.45	163.74	4399.63	-46.46	-42.14	25.62	49.32	148.70	0.27	173.46M	7214679.97	2179866.31
4450.50	1.37	173.46	4449.61	-47.41	-43.34	25.87	50.47	149.17	0.50	-176.79M	7214678.77	2179866.58
4500.50	1.35	183.21	4499.60	-48.18	-44.52	25.90	51.51	149.81	0.46	-176.19M	7214677.59	2179866.64
4550.50	1.52	183.81	4549.58	-48.91	-45.77	25.83	52.55	150.57	0.34	-176.35M	7214676.34	2179866.59
4600.50	1.41	183.65	4599.56	-49.65	-47.05	25.74	53.63	151.31	0.22	177.06M	7214675.06	2179866.53
4650.50	1.47	177.06	4649.55	-50.44	-48.30	25.74	54.73	151.95	0.35	178.96M	7214673.81	2179866.55
4700.50	1.49	178.96	4699.53	-51.29	-49.59	25.78	55.89	152.53	0.11	177.91M	7214672.52	2179866.63
4750.50	1.54	177.91	4749.51	-52.15	-50.91	25.82	57.08	153.11	0.11	179.78M	7214671.20	2179866.69
4800.50	1.25	179.78	4799.50	-52.94	-52.13	25.84	58.18	153.63	0.59	179.02M	7214669.98	2179866.74
Tie-In 4850.50	1.35	179.02	4849.49	-53.66	-53.26	25.86	59.21	154.11	0.20	179.95M	7214668.85	2179866.78
4855.00	1.35	179.95	4853.98	-53.73	-53.37	25.86	59.30	154.15	0.49	-24.40M	7214668.74	2179866.78
4939.00	15.90	335.60	4936.99	-43.98	-43.81	21.07	48.61	154.32	20.40	0.00G	7214678.20	2179861.79
4970.00	23.10	335.50	4966.19	-34.72	-34.40	16.79	38.27	153.98	23.23	8.79G	7214687.51	2179857.31
5002.00	29.50	337.50	4994.86	-22.16	-21.39	11.16	24.13	152.44	20.19	-8.70G	7214700.39	2179851.40
5033.00	34.30	336.20	5021.17	-7.66	-6.34	4.71	7.90	143.36	15.64	-40.85G	7214715.30	2179844.63
5065.00	37.40	331.90	5047.11	9.34	10.49	-3.51	11.06	341.52	12.48	-36.01G	7214731.95	2179836.05
5097.00	41.50	327.50	5071.82	28.37	28.02	-13.79	31.22	333.80	15.50	22.92G	7214749.25	2179825.40
5128.00	47.10	330.70	5094.00	48.69	46.60	-24.87	52.82	331.91	19.45	8.24G	7214767.58	2179813.92
5160.00	53.20	331.80	5114.50	71.43	68.13	-36.67	77.37	331.71	19.24	-54.88G	7214788.85	2179801.65
5191.00	55.40	328.10	5132.59	94.96	89.91	-49.28	102.53	331.27	12.01	-8.35G	7214810.35	2179788.58
5223.00	58.30	327.60	5150.09	120.32	112.59	-63.54	129.28	330.56	9.16	-0.86G	7214832.72	2179773.84
5255.00	64.30	327.50	5165.45	146.94	136.26	-78.60	157.30	330.02	18.75	-6.28G	7214856.06	2179758.28

5286.00	70.30	326.80	5177.40	174.12	160.27	-94.10	185.86	329.58	19.47	0.00G	7214879.73	2179742.25
5318.00	71.00	326.80	5188.01	202.89	185.54	-110.64	216.02	329.19	2.19	39.33G	7214904.63	2179725.18
5349.00	72.40	328.00	5197.74	230.83	210.33	-126.49	245.44	328.98	5.82	9.27G	7214929.07	2179708.80
5381.00	77.80	328.90	5205.97	260.00	236.68	-142.66	276.35	328.92	17.09	7.01G	7214955.06	2179692.06
5413.00	79.40	329.10	5212.29	289.49	263.56	-158.82	307.72	328.93	5.04	15.72G	7214981.59	2179675.33
5445.00	80.10	329.30	5217.99	319.07	290.61	-174.94	339.21	328.95	2.27	4.15G	7215008.28	2179658.63
5476.00	87.00	329.80	5221.47	347.91	317.15	-190.54	369.99	329.00	22.32	-26.57G	7215034.48	2179642.46
5508.00	88.80	328.90	5222.64	377.91	344.66	-206.85	401.97	329.03	6.29	-153.45G	7215061.63	2179625.57
5540.00	88.40	328.70	5223.42	408.03	372.02	-223.42	433.96	329.01	1.40	-90.00G	7215088.62	2179608.42
5571.00	88.40	328.20	5224.29	437.27	398.43	-239.63	464.94	328.98	1.61	-146.32G	7215114.67	2179591.64
5603.00	88.10	328.00	5225.26	467.52	425.59	-256.53	496.92	328.92	1.13	-110.91G	7215141.45	2179574.16
5634.00	87.30	325.90	5226.51	497.00	451.55	-273.43	527.88	328.80	7.24	75.96G	7215167.04	2179556.71
5662.00	87.40	326.30	5227.80	523.75	474.76	-289.03	555.82	328.67	1.47	-82.71G	7215189.91	2179540.62
5693.00	87.80	323.20	5229.10	553.57	500.05	-306.90	586.72	328.46	10.07	-118.66G	7215214.81	2179522.20
5725.00	87.20	322.10	5230.50	584.65	525.47	-326.29	618.53	328.16	3.91	-60.50G	7215239.80	2179502.27
5757.00	88.90	319.10	5231.59	615.99	550.18	-346.59	650.25	327.79	10.77	-123.71G	7215264.06	2179481.44
5788.00	88.10	317.90	5232.40	646.56	573.39	-367.12	680.85	327.37	4.65	-23.20G	7215286.82	2179460.42
5820.00	89.50	317.30	5233.07	678.20	597.01	-388.70	712.39	326.93	4.76	-92.50G	7215309.97	2179438.34
5851.00	89.40	315.00	5233.36	708.97	619.36	-410.17	742.87	326.49	7.43	-121.76G	7215331.86	2179416.39
5883.00	86.50	310.30	5234.51	740.87	641.02	-433.68	773.94	325.92	17.25	-73.52G	7215353.00	2179392.42
5915.00	87.60	306.60	5236.16	772.82	660.89	-458.70	804.48	325.24	12.05	23.51G	7215372.32	2179366.98
5946.00	89.90	307.60	5236.83	803.79	679.58	-483.42	833.99	324.57	8.09	-56.30G	7215390.48	2179341.87
5978.00	91.50	305.20	5236.44	835.75	698.57	-509.17	864.44	323.91	9.01	-170.54G	7215408.90	2179315.71
6010.00	90.90	305.10	5235.77	867.67	716.99	-535.33	894.79	323.25	1.90	26.55G	7215426.75	2179289.17
6041.00	91.70	305.50	5235.07	898.59	734.90	-560.63	924.32	322.66	2.89	-84.27G	7215444.11	2179263.49
6073.00	91.80	304.50	5234.09	930.49	753.24	-586.83	954.85	322.08	3.14	-133.59G	7215461.88	2179236.91
6105.00	89.80	302.40	5233.64	962.33	770.88	-613.52	985.22	321.48	9.06	-172.15G	7215478.94	2179209.84
6136.00	86.90	302.00	5234.54	993.09	787.39	-639.74	1014.52	320.91	9.44	180.00G	7215494.88	2179183.28
6167.00	83.60	302.00	5237.10	1023.74	803.76	-665.93	1043.79	320.36	10.65	-167.57G	7215510.68	2179156.74
6199.00	82.70	301.80	5240.92	1055.26	820.55	-692.91	1073.97	319.82	2.88	-15.59G	7215526.88	2179129.41
6231.00	87.00	300.60	5243.79	1086.82	837.05	-720.16	1104.21	319.29	13.95	39.28G	7215542.79	2179101.81
6263.00	88.10	301.50	5245.16	1118.48	853.54	-747.55	1134.62	318.79	4.44	-19.98G	7215558.68	2179074.07
6294.00	89.20	301.10	5245.89	1149.18	869.64	-774.03	1164.22	318.33	3.78	75.97G	7215574.21	2179047.25
6326.00	89.40	301.90	5246.28	1180.89	886.36	-801.31	1194.88	317.88	2.58	-129.81G	7215590.33	2179019.62
6358.00	88.90	301.30	5246.76	1212.62	903.13	-828.57	1225.63	317.47	2.44	-148.01G	7215606.51	2178992.01
6389.00	88.10	300.80	5247.57	1243.30	919.11	-855.11	1255.38	317.07	3.04	-135.06G	7215621.91	2178965.13
6421.00	86.70	299.40	5249.02	1274.87	935.14	-882.77	1285.99	316.65	6.18	-79.41G	7215637.34	2178937.14
6455.00	87.00	297.80	5250.89	1308.25	951.39	-912.57	1318.31	316.19	4.78	-90.00G	7215652.94	2178906.99
6484.00	87.00	297.50	5252.41	1336.63	964.83	-938.23	1345.80	315.80	1.03	6.01G	7215665.83	2178881.06
6516.00	90.80	297.90	5253.02	1367.99	979.70	-966.55	1376.24	315.39	11.94	-135.00G	7215680.08	2178852.42
6580.00	90.00	297.10	5252.57	1430.68	1009.25	-1023.32	1437.28	314.60	1.77	-108.43G	7215708.40	2178795.04
6612.00	89.90	296.80	5252.60	1461.96	1023.75	-1051.84	1467.80	314.22	0.99	63.44G	7215722.28	2178766.21
6643.00	90.00	297.00	5252.63	1492.26	1037.78	-1079.49	1497.42	313.87	0.72	132.72G	7215735.71	2178738.27
6670.00	88.80	298.30	5252.91	1518.72	1050.31	-1103.40	1523.37	313.59	6.55	-108.45G	7215747.71	2178714.09
6702.00	88.60	297.70	5253.64	1550.11	1065.33	-1131.65	1554.20	313.27	1.98	-127.90G	7215762.12	2178685.53
6733.00	87.90	296.80	5254.58	1580.43	1079.51	-1159.19	1584.01	312.96	3.68	-159.00G	7215775.71	2178657.69
6771.00	86.60	296.30	5256.41	1617.48	1096.48	-1193.15	1620.45	312.58	3.66	24.77G	7215791.94	2178623.38
6797.00	87.90	296.90	5257.65	1642.83	1108.11	-1216.37	1645.43	312.33	5.51	42.53G	7215803.06	2178599.92
6828.00	90.30	299.10	5258.14	1673.24	1122.66	-1243.73	1675.48	312.07	10.50	123.69G	7215817.02	2178572.25
6860.00	90.10	299.40	5258.03	1704.77	1138.29	-1271.65	1706.70	311.83	1.13	173.99G	7215832.04	2178544.00
6892.00	88.20	299.60	5258.50	1736.32	1154.05	-1299.50	1737.97	311.61	5.97	-7.12G	7215847.19	2178515.82
6924.00	89.00	299.50	5259.29	1767.86	1169.83	-1327.33	1769.26	311.39	2.52	18.43G	7215862.37	2178487.66
6955.00	89.30	299.60	5259.75	1798.43	1185.11	-1354.29	1799.61	311.19	1.02	99.48G	7215877.07	2178460.38
6987.00	89.00	301.40	5260.22	1830.06	1201.35	-1381.86	1831.06	311.00	5.70	180.00G	7215892.70	2178432.47
7023.00	87.20	301.40	5261.41	1865.72	1220.10	-1412.57	1866.54	310.82	5.00	-130.66G	7215910.78	2178401.37
7054.00	86.60	300.70	5263.09	1896.36	1236.06	-1439.09	1897.06	310.66	2.97	145.09G	7215926.17	2178374.51
7086.00	85.60	301.40	5265.27	1927.97	1252.53	-1466.44	1928.54	310.50	3.81	-38.62G	7215942.04	2178346.81
7118.00	86.60	300.60	5267.44	1959.58	1268.97	-1493.81	1960.04	310.35	4.00	2.73G	7215957.89	2178319.10
Tie-In 7150.00	90.80	300.80	5268.17	1991.22	1285.30	-1521.31	1991.58	310.19	13.14	158.96G	7215973.62	2178291.26
7176.00	89.50	301.30	5268.10	2016.96	1298.71	-1543.58	2017.25	310.08	5.36	71.56G	7215986.55	2178268.70
7208.00	91.20	306.40	5267.91	2048.82	1316.53	-1570.15	2049.05	309.98	16.80	136.08G	7216003.79	2178241.76
7239.00	88.50	309.00	5267.99	2079.80	1335.48	-1594.67	2080.02	309.95	12.09	-71.56G	7216022.20	2178216.84
7271.00	88.60	308.70	5268.80	2111.79	1355.55	-1619.58	2112.01	309.93	0.99	53.13G	7216041.73	2178191.50
7303.00	88.90	309.10	5269.49	2143.78	1375.64	-1644.48	2143.99	309.91	1.56	90.00G	7216061.27	2178166.18
7335.00	88.90	309.90	5270.11	2175.78	1395.99	-1669.17	2175.99	309.91	2.50	-63.44G	7216081.09	2178141.06
7366.00	89.10	309.50	5270.65	2206.77	1415.79	-1693.02	2206.98	309.90	1.44	-90.00G	7216100.36	2178116.79

						NS	EW						
	7398.00	89.10	309.40	5271.15	2238.76	1436.12	-1717.72	2238.98	309.90	0.31	-18.43G	7216120.16	2178091.65
	7430.00	89.70	309.20	5271.49	2270.76	1456.39	-1742.48	2270.97	309.89	1.98	-26.57G	7216139.88	2178066.46
	7461.00	89.90	309.10	5271.60	2301.76	1475.96	-1766.52	2301.97	309.88	0.72	-143.13G	7216158.93	2178042.01
	7493.00	89.10	308.50	5271.88	2333.76	1496.01	-1791.46	2333.96	309.86	3.12	-140.21G	7216178.43	2178016.65
	7524.00	88.50	308.00	5272.52	2364.75	1515.20	-1815.80	2364.94	309.84	2.52	90.00G	7216197.09	2177991.90
	7556.00	88.50	308.10	5273.36	2396.73	1534.91	-1840.99	2396.92	309.82	0.31	-26.56G	7216216.26	2177966.29
	7588.00	88.70	308.00	5274.14	2428.72	1554.63	-1866.18	2428.89	309.80	0.70	-33.69G	7216235.43	2177940.69
	7620.00	89.00	307.80	5274.79	2460.70	1574.28	-1891.43	2460.87	309.77	1.13	85.61G	7216254.53	2177915.02
	7651.00	89.10	309.10	5275.30	2491.70	1593.56	-1915.70	2491.85	309.75	4.21	-78.12G	7216273.27	2177890.34
	7683.00	89.50	307.20	5275.69	2523.69	1613.32	-1940.86	2523.84	309.73	6.07	108.44G	7216292.49	2177864.76
	7715.00	89.40	307.50	5276.00	2555.67	1632.73	-1966.30	2555.81	309.70	0.99	-150.95G	7216311.35	2177838.92
	7747.00	88.50	307.00	5276.58	2587.65	1652.10	-1991.77	2587.77	309.67	3.22	-90.00G	7216330.16	2177813.04
	7778.00	88.50	306.50	5277.40	2618.61	1670.64	-2016.60	2618.72	309.64	1.61	-21.80G	7216348.16	2177787.82
	7810.00	89.00	306.30	5278.09	2650.57	1689.63	-2042.35	2650.67	309.60	1.68	-26.56G	7216366.58	2177761.67
	7842.00	89.20	306.20	5278.60	2682.53	1708.55	-2068.15	2682.61	309.56	0.70	0.00G	7216384.94	2177735.46
	7873.00	89.20	306.20	5279.03	2713.48	1726.85	-2093.17	2713.55	309.52	0.00	-157.64G	7216402.70	2177710.06
	7905.00	87.50	305.50	5279.95	2745.42	1745.59	-2119.09	2745.47	309.48	5.74	-135.03G	7216420.87	2177683.74
	7937.00	87.40	305.40	5281.37	2777.32	1764.13	-2145.13	2777.36	309.43	0.44	47.73G	7216438.84	2177657.31
	7968.00	88.40	306.50	5282.51	2808.25	1782.31	-2170.21	2808.28	309.39	4.79	12.53G	7216456.48	2177631.85
	8031.00	90.20	306.90	5283.28	2871.19	1819.96	-2220.72	2871.21	309.34	2.93	-90.00G	7216493.03	2177580.55
	8094.00	90.20	306.30	5283.06	2934.13	1857.52	-2271.29	2934.14	309.28	0.95	168.24G	7216529.49	2177529.18
	8126.00	87.80	306.80	5283.62	2966.09	1876.57	-2297.00	2966.10	309.25	7.66	-143.16G	7216547.98	2177503.07
	8158.00	87.40	306.50	5284.96	2998.03	1895.66	-2322.65	2998.03	309.22	1.56	-132.05G	7216566.50	2177477.02
	8189.00	86.50	305.50	5286.61	3028.94	1913.85	-2347.69	3028.94	309.19	4.34	6.33G	7216584.15	2177451.59
Last Survey	8221.00	87.40	305.60	5288.31	3060.83	1932.43	-2373.69	3060.83	309.15	2.83	0.00G	7216602.16	2177425.20
To MD	*8255.00*	*87.40*	*305.60*	*5289.85*	*3094.73*	*1952.20*	*-2401.31*	*3094.73*	*309.11*	*0.00*	*0.00G*	*7216621.33*	*2177397.17*

Survey Type: Non-Def Survey

Survey Error Model: **SLB ISCWSA version 22 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Borehole -> Survey
-18.50	0.00	Act-Stns	SLB_CNSG+CASING	Original Hole -> GHU 9 Field Gyro Survey
0.00	4850.50	Act-Stns	SLB_CNSG+CASING	Original Hole -> GHU 9 Field Gyro Survey
4850.50	7150.00	Act-Stns	SLB_MWD-STD	Lateral 1 -> GH 9 Lateral #1 NW Field Survey
7150.00	8221.00	Act-Stns	SLB_MWD-STD	ST1 off Lat 1 -> GH 9 - ST1 off Lat 1 - Field Survey

**Italicized stations are NOT used in position calculations.*

GH 9 Lateral #2 SE Field Survey Survey Report

Report Date:	June 22, 2010	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	QEP ENERGY	**Vertical Section Azimuth:**	144.060°
Field:	Uinta	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	Gypsum Hills / GHU 9	**TVD Reference Datum:**	KB
Well:	GH 9	**TVD Reference Elevation:**	4699.5 ft relative to MSL
Borehole:	Lateral 2	**Sea Bed / Ground Level Elevation:**	4718.000 ft relative to MSL
UWI/API#:		**Magnetic Declination:**	11.844°
Survey Name / Date:	GH 9 Lateral #2 SE Field Survey / April 9, 2010	**Total Field Strength:**	52960.801 nT
Tort / AHD / DDI / ERD ratio:	206.196° / 2811.88 ft / 5.935 / 0.541	**Magnetic Dip:**	66.094°
Grid Coordinate System:	NAD83 Utah State Planes, Central Zone, US Feet	**Declination Date:**	April 09, 2010
Location Lat/Long:	N 40 6 37.120, W 109 34 16.250	**Magnetic Declination Model:**	IGRF 2005
Location Grid N/E Y/X:	N 7214721.537 ftUS, E 2179839.784 ftUS	**North Reference:**	True North
Grid Convergence Angle:	+1.23556045°	**Total Corr Mag North -> True North:**	+11.844°
Grid Scale Factor:	0.99991034	**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Projected-Up	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00M	7214721.54	2179839.78
Tie-In	0.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	104.76M	7214721.54	2179839.78
	50.50	0.10	104.76	50.50	0.03	-0.01	0.04	0.04	104.76	0.20	-90.77M	7214721.53	2179839.83
	100.50	0.04	269.23	100.50	0.06	-0.02	0.07	0.07	108.55	0.28	150.22M	7214721.52	2179839.85
	150.50	0.10	150.22	150.50	0.09	-0.06	0.07	0.09	130.41	0.25	150.31M	7214721.48	2179839.86
	200.50	0.20	150.31	200.50	0.22	-0.17	0.14	0.22	142.02	0.20	117.46M	7214721.37	2179839.92
	250.50	0.13	117.46	250.50	0.36	-0.28	0.23	0.36	140.27	0.23	-171.65M	7214721.27	2179840.02
	300.50	0.12	188.35	300.50	0.45	-0.35	0.27	0.45	142.44	0.29	-132.61M	7214721.19	2179840.06
	350.50	0.05	227.39	350.50	0.49	-0.42	0.25	0.49	149.42	0.17	-173.75M	7214721.12	2179840.04
	400.50	0.14	186.25	400.50	0.53	-0.50	0.23	0.55	155.52	0.22	-150.09M	7214721.05	2179840.02
	450.50	0.13	209.91	450.50	0.60	-0.61	0.19	0.64	162.51	0.11	-145.65M	7214720.94	2179839.99
	500.50	0.17	214.35	500.50	0.65	-0.72	0.12	0.73	170.42	0.08	-97.41M	7214720.82	2179839.92
	550.50	0.12	262.59	550.50	0.65	-0.78	0.03	0.79	178.02	0.25	-94.24M	7214720.75	2179839.83
	600.50	0.13	265.76	600.50	0.60	-0.80	-0.08	0.80	185.84	0.02	-84.97M	7214720.74	2179839.72
	650.50	0.16	275.03	650.50	0.52	-0.79	-0.21	0.82	194.65	0.08	-55.94M	7214720.74	2179839.59
	700.50	0.19	304.06	700.50	0.40	-0.74	-0.35	0.82	205.01	0.18	-52.06M	7214720.79	2179839.45
	750.50	0.21	307.94	750.50	0.23	-0.64	-0.49	0.80	217.33	0.05	-34.16M	7214720.89	2179839.31
	800.50	0.11	325.84	800.50	0.10	-0.54	-0.59	0.80	227.22	0.22	-38.89M	7214720.98	2179839.21
	850.50	0.15	321.11	850.50	-0.02	-0.45	-0.65	0.79	235.37	0.08	-35.18M	7214721.07	2179839.14
	900.50	0.22	324.82	900.50	-0.18	-0.32	-0.75	0.82	246.76	0.14	-34.86M	7214721.20	2179839.04
	950.50	0.24	325.14	950.50	-0.38	-0.16	-0.87	0.88	259.67	0.04	-29.24M	7214721.36	2179838.92
	1000.50	0.28	330.76	1000.50	-0.61	0.03	-0.99	0.99	272.02	0.09	-27.94M	7214721.55	2179838.80
	1050.50	0.31	332.06	1050.50	-0.86	0.26	-1.11	1.14	283.25	0.06	-24.79M	7214721.77	2179838.67
	1100.50	0.38	335.21	1100.49	-1.16	0.53	-1.24	1.35	293.16	0.14	-19.19M	7214722.04	2179838.53
	1150.50	0.47	340.81	1150.49	-1.52	0.88	-1.38	1.63	302.42	0.20	-15.69M	7214722.38	2179838.39
	1200.50	0.50	344.31	1200.49	-1.92	1.28	-1.50	1.97	310.37	0.08	-12.21M	7214722.78	2179838.25
	1250.50	0.50	347.79	1250.49	-2.32	1.70	-1.61	2.34	316.60	0.06	-5.17M	7214723.20	2179838.14
	1300.50	0.53	354.83	1300.49	-2.72	2.15	-1.68	2.72	322.00	0.14	-26.11M	7214723.65	2179838.06
	1350.50	0.55	333.89	1350.49	-3.16	2.59	-1.80	3.16	325.17	0.39	-20.02M	7214724.09	2179837.93
	1400.50	0.39	339.98	1400.48	-3.56	2.97	-1.97	3.56	326.46	0.33	-13.12M	7214724.46	2179837.75
	1450.50	0.45	346.88	1450.48	-3.90	3.32	-2.07	3.91	328.05	0.16	-27.57M	7214724.81	2179837.64
	1500.50	0.47	332.43	1500.48	-4.28	3.69	-2.21	4.30	329.10	0.23	-37.94M	7214725.18	2179837.50
	1550.50	0.32	322.06	1550.48	-4.63	3.98	-2.39	4.64	329.04	0.33	-49.04M	7214725.47	2179837.31
	1600.50	0.34	310.96	1600.48	-4.91	4.19	-2.59	4.92	328.30	0.13	-51.89M	7214725.67	2179837.11
	1650.50	0.32	308.11	1650.48	-5.19	4.37	-2.81	5.20	327.28	0.05	-46.67M	7214725.85	2179836.88
	1700.50	0.36	313.33	1700.48	-5.48	4.57	-3.03	5.48	326.41	0.10	-50.31M	7214726.04	2179836.65
	1750.50	0.40	309.69	1750.48	-5.80	4.79	-3.28	5.80	325.56	0.09	-34.33M	7214726.25	2179836.40
	1800.50	0.15	325.67	1800.48	-6.04	4.95	-3.45	6.04	325.11	0.52	14.20M	7214726.41	2179836.22
	1850.50	0.07	14.20	1850.48	-6.12	5.04	-3.48	6.12	325.33	0.23	12.06M	7214726.50	2179836.19
	1900.50	0.17	12.06	1900.48	-6.19	5.14	-3.46	6.19	326.04	0.20	88.52M	7214726.60	2179836.21
	1950.50	0.20	88.52	1950.48	-6.19	5.21	-3.36	6.20	327.22	0.46	84.35M	7214726.68	2179836.32
	2000.50	0.28	84.35	2000.47	-6.08	5.23	-3.15	6.10	328.94	0.16	49.50M	7214726.69	2179836.52
	2050.50	0.37	49.50	2050.47	-6.03	5.34	-2.90	6.08	331.48	0.43	75.09M	7214726.82	2179836.77
	2100.50	0.37	75.09	2100.47	-5.99	5.49	-2.63	6.09	334.45	0.33	106.59M	7214726.97	2179837.04
	2150.50	0.53	106.59	2150.47	-5.74	5.47	-2.25	5.91	337.65	0.58	120.55M	7214726.95	2179837.42

	2200.50	0.76	120.55	2200.47	-5.26	5.23	-1.74	5.51	341.60	0.55	117.20M	7214726.73	2179837.93
	2250.50	0.74	117.20	2250.46	-4.66	4.92	-1.17	5.05	346.64	0.10	119.89M	7214726.43	2179838.51
	2300.50	1.09	119.89	2300.46	-3.94	4.53	-0.47	4.55	354.10	0.71	120.73M	7214726.06	2179839.22
	2350.50	1.38	120.73	2350.45	-2.96	3.99	0.46	4.01	6.61	0.58	121.20M	7214725.53	2179840.16
	2400.50	1.55	121.20	2400.43	-1.78	3.33	1.56	3.67	25.08	0.34	121.63M	7214724.90	2179841.27
	2450.50	1.66	121.63	2450.41	-0.49	2.60	2.75	3.79	46.66	0.22	133.13M	7214724.19	2179842.48
	2500.50	2.02	133.13	2500.38	1.05	1.62	4.01	4.33	68.07	1.03	141.92M	7214723.24	2179843.76
	2550.50	2.83	141.92	2550.34	3.15	0.04	5.42	5.42	89.56	1.78	146.48M	7214721.70	2179845.20
	2600.50	3.03	146.48	2600.27	5.70	-2.03	6.91	7.20	106.39	0.61	150.21M	7214719.65	2179846.73
	2650.50	3.04	150.21	2650.20	8.34	-4.28	8.30	9.34	117.31	0.40	149.31M	7214717.43	2179848.17
	2700.50	2.81	149.31	2700.14	10.88	-6.49	9.58	11.57	124.11	0.47	148.38M	7214715.26	2179849.50
	2750.50	2.53	148.38	2750.08	13.20	-8.48	10.78	13.72	128.19	0.57	144.54M	7214713.29	2179850.75
	2800.50	2.32	144.54	2800.04	15.31	-10.25	11.95	15.74	130.61	0.53	145.92M	7214711.55	2179851.95
	2850.50	1.83	145.92	2850.01	17.12	-11.73	12.98	17.50	132.10	0.99	144.10M	7214710.09	2179853.02
	2900.50	1.72	144.10	2899.98	18.67	-13.00	13.87	19.01	133.14	0.25	141.76M	7214708.84	2179853.93
	2950.50	1.62	141.76	2949.96	20.12	-14.16	14.75	20.45	133.84	0.24	139.40M	7214707.70	2179854.83
	3000.50	1.29	139.40	2999.95	21.39	-15.15	15.55	21.71	134.24	0.67	135.20M	7214706.73	2179855.66
	3050.50	1.18	135.20	3049.93	22.46	-15.94	16.28	22.79	134.39	0.28	132.20M	7214705.95	2179856.40
	3100.50	1.14	132.20	3099.92	23.46	-16.64	17.01	23.80	134.36	0.15	142.61M	7214705.27	2179857.15
	3150.50	0.98	142.61	3149.91	24.37	-17.31	17.64	24.72	134.46	0.50	138.71M	7214704.61	2179857.79
	3200.50	1.02	138.71	3199.91	25.24	-17.99	18.20	25.58	134.67	0.16	146.16M	7214703.95	2179858.36
	3250.50	1.01	146.16	3249.90	26.13	-18.69	18.73	26.46	134.93	0.26	148.10M	7214703.26	2179858.92
	3300.50	1.11	148.10	3299.89	27.05	-19.46	19.24	27.37	135.34	0.21	156.15M	7214702.49	2179859.43
	3350.50	1.00	156.15	3349.88	27.96	-20.27	19.67	28.25	135.87	0.37	158.05M	7214701.69	2179859.88
	3400.50	0.87	158.05	3399.88	28.75	-21.03	19.99	29.01	136.45	0.27	158.21M	7214700.95	2179860.22
	3450.50	0.94	158.21	3449.87	29.52	-21.76	20.28	29.74	137.01	0.14	154.15M	7214700.22	2179860.53
	3500.50	1.03	154.15	3499.86	30.36	-22.54	20.63	30.56	137.54	0.23	145.26M	7214699.45	2179860.89
	3550.50	1.04	145.26	3549.85	31.26	-23.32	21.08	31.44	137.88	0.32	151.39M	7214698.68	2179861.36
	3600.50	1.11	151.39	3599.85	32.19	-24.12	21.57	32.36	138.19	0.27	156.98M	7214697.89	2179861.87
	3650.50	1.23	156.98	3649.83	33.19	-25.04	22.02	33.34	138.68	0.33	165.44M	7214696.98	2179862.33
	3700.50	1.27	165.44	3699.82	34.23	-26.07	22.36	34.35	139.37	0.38	171.46M	7214695.96	2179862.70
	3750.50	1.16	171.46	3749.81	35.20	-27.10	22.58	35.28	140.21	0.34	163.97M	7214694.93	2179862.94
	3800.50	0.99	163.97	3799.80	36.05	-28.02	22.77	36.11	140.90	0.44	173.36M	7214694.02	2179863.15
	3850.50	1.06	173.36	3849.79	36.86	-28.90	22.95	36.90	141.55	0.36	175.39M	7214693.15	2179863.35
	3900.50	1.14	175.39	3899.79	37.69	-29.85	23.04	37.71	142.34	0.18	172.91M	7214692.19	2179863.46
	3950.50	1.19	172.91	3949.78	38.57	-30.86	23.14	38.58	143.13	0.14	178.12M	7214691.18	2179863.59
	4000.50	1.38	178.12	3999.76	39.52	-31.98	23.23	39.52	144.01	0.45	176.26M	7214690.07	2179863.69
	4050.50	1.43	176.26	4049.75	40.55	-33.20	23.29	40.56	144.95	0.14	171.09M	7214688.85	2179863.78
	4100.50	1.52	171.09	4099.73	41.67	-34.48	23.43	41.69	145.80	0.32	167.16M	7214687.57	2179863.95
	4150.50	1.63	167.16	4149.71	42.91	-35.83	23.69	42.95	146.53	0.31	164.77M	7214686.23	2179864.24
	4200.50	1.58	164.77	4199.69	44.21	-37.19	24.03	44.28	147.13	0.17	164.00M	7214684.88	2179864.61
	4250.50	1.42	164.00	4249.68	45.44	-38.45	24.38	45.53	147.62	0.32	162.07M	7214683.63	2179864.99
	4300.50	1.57	162.07	4299.66	46.67	-39.70	24.76	46.79	148.04	0.32	158.34M	7214682.39	2179865.40
	4350.50	1.46	158.34	4349.64	47.94	-40.94	25.21	48.08	148.37	0.30	163.74M	7214681.16	2179865.87
	4400.50	1.45	163.74	4399.63	49.16	-42.14	25.62	49.32	148.70	0.27	173.46M	7214679.97	2179866.31
	4450.50	1.37	173.46	4449.61	50.27	-43.34	25.87	50.47	149.17	0.50	-176.79M	7214678.77	2179866.58
	4500.50	1.35	183.21	4499.60	51.25	-44.52	25.90	51.51	149.81	0.46	-176.19M	7214677.59	2179866.64
	4550.50	1.52	183.81	4549.58	52.22	-45.77	25.83	52.55	150.57	0.34	-176.35M	7214676.34	2179866.59
	4600.50	1.41	183.65	4599.56	53.20	-47.05	25.74	53.63	151.31	0.22	177.06M	7214675.06	2179866.53
	4650.50	1.47	177.06	4649.55	54.21	-48.30	25.74	54.73	151.95	0.35	178.96M	7214673.81	2179866.55
	4700.50	1.49	178.96	4699.53	55.28	-49.59	25.78	55.89	152.53	0.11	177.91M	7214672.52	2179866.63
Tie-In	4750.50	1.54	177.91	4749.51	56.37	-50.91	25.82	57.08	153.11	0.11	110.80M	7214671.20	2179866.69
	4875.00	21.90	110.80	4870.91	77.42	-60.95	47.84	77.48	141.87	17.15	6.72G	7214661.64	2179888.92
	4907.00	28.90	112.50	4899.80	89.02	-66.03	60.58	89.61	137.47	21.99	53.36G	7214656.83	2179901.77
	4939.00	30.30	116.10	4927.62	102.74	-72.54	74.97	104.32	134.06	7.07	128.03G	7214650.64	2179916.30
	4970.00	29.40	118.50	4954.51	116.51	-79.61	88.68	119.18	131.92	4.82	-3.17G	7214643.86	2179930.16
	5002.00	32.30	118.20	4981.98	131.29	-87.40	103.12	135.18	130.28	9.08	-16.22G	7214636.39	2179944.76
	5034.00	36.40	116.20	5008.39	147.39	-95.64	119.19	152.81	128.74	13.29	-4.44G	7214628.50	2179960.99
	5065.00	40.60	115.70	5032.65	164.40	-104.08	136.54	171.68	127.32	13.59	37.06G	7214620.44	2179978.52
	5097.00	44.90	120.20	5056.15	183.91	-114.28	155.69	193.13	126.28	16.48	47.04G	7214610.65	2179997.89
	5129.00	50.30	127.40	5077.73	206.06	-127.46	175.26	216.71	126.03	23.66	36.32G	7214597.90	2180017.74
	5160.00	54.70	131.30	5096.60	229.84	-143.06	194.25	241.25	126.37	17.35	32.18G	7214582.71	2180037.06
	5192.00	58.10	133.80	5114.31	255.96	-161.09	213.87	267.75	126.99	12.46	26.36G	7214565.11	2180057.06
	5223.00	61.30	135.60	5129.95	282.36	-179.92	232.89	294.29	127.69	11.47	38.87G	7214546.70	2180076.48
	5255.00	64.70	138.60	5144.48	310.65	-200.81	252.29	322.45	128.52	13.51	53.49G	7214526.24	2180096.32
	5287.00	66.70	141.50	5157.65	339.74	-223.16	271.01	351.06	129.47	10.36	59.28G	7214504.29	2180115.51

5318.00	67.70	143.30	5169.66	368.31	-245.80	288.44	378.97	130.44	6.25	3.89G	7214482.03	2180133.43
5350.00	71.90	143.60	5180.71	398.33	-269.93	306.32	408.28	131.39	13.15	12.77G	7214458.30	2180151.82
5381.00	78.40	145.10	5188.65	428.28	-294.26	323.77	437.51	132.27	21.48	-3.22G	7214434.35	2180169.79
5413.00	83.70	144.80	5193.63	459.87	-320.13	341.92	468.39	133.12	16.59	-16.34G	7214408.88	2180188.49
5445.00	85.40	144.30	5196.67	491.73	-346.08	360.39	499.65	133.84	5.54	-15.94G	7214383.34	2180207.52
5476.00	87.50	143.70	5198.59	522.66	-371.11	378.58	530.14	134.43	7.04	-4.40G	7214358.71	2180226.24
5508.00	91.40	143.40	5198.89	554.66	-396.84	397.58	561.75	134.95	12.22	-71.56G	7214333.39	2180245.80
5540.00	91.50	143.10	5198.08	586.64	-422.48	416.72	593.42	135.39	0.99	-126.87G	7214308.18	2180265.48
5571.00	91.20	142.70	5197.35	617.63	-447.19	435.42	624.16	135.76	1.61	-56.30G	7214283.88	2180284.70
5603.00	91.40	142.40	5196.63	649.61	-472.59	454.87	655.94	136.09	1.13	126.87G	7214258.91	2180304.70
5635.00	91.10	142.80	5195.93	681.59	-498.01	474.30	687.73	136.40	1.56	-69.43G	7214233.92	2180324.67
5666.00	91.40	142.00	5195.25	712.57	-522.56	493.21	718.56	136.66	2.76	-119.05G	7214209.78	2180344.10
5698.00	90.90	141.10	5194.61	744.53	-547.62	513.11	750.44	136.86	3.22	172.88G	7214185.16	2180364.53
5730.00	90.10	141.20	5194.33	776.49	-572.54	533.18	782.36	137.04	2.52	-160.56G	7214160.68	2180385.14
5761.00	88.40	140.60	5194.74	807.44	-596.59	552.73	813.28	137.19	5.82	146.33G	7214137.06	2180405.20
5793.00	88.10	140.80	5195.71	839.37	-621.34	572.99	845.21	137.32	1.13	-77.48G	7214112.75	2180425.98
5800.00	88.30	139.90	5195.93	846.35	-626.73	577.45	852.20	137.34	13.16	38.66G	7214107.46	2180430.56
5832.00	89.30	140.70	5196.60	878.27	-651.35	597.89	884.15	137.45	4.00	21.37G	7214083.29	2180451.52
5863.00	91.60	141.60	5196.36	909.23	-675.49	617.33	915.08	137.58	7.97	0.00G	7214059.58	2180471.48
5895.00	94.20	141.60	5194.74	941.16	-700.53	637.18	946.96	137.71	8.12	18.37G	7214034.97	2180491.86
5927.00	95.10	141.90	5192.15	973.02	-725.58	656.93	978.78	137.84	2.96	90.00G	7214010.36	2180512.14
5959.00	95.10	144.00	5189.30	1004.89	-751.01	676.13	1010.53	138.00	6.54	135.09G	7213985.34	2180531.89
5990.00	94.80	144.30	5186.63	1035.77	-776.05	694.22	1041.24	138.19	1.37	158.21G	7213960.71	2180550.51
6022.00	92.80	145.10	5184.51	1067.70	-802.10	712.67	1072.97	138.38	6.73	143.15G	7213935.06	2180569.51
6054.00	92.40	145.40	5183.06	1099.66	-828.37	730.89	1104.71	138.58	1.56	-141.34G	7213909.19	2180588.29
6085.00	91.40	144.60	5182.03	1130.64	-853.75	748.66	1135.51	138.75	4.13	107.63G	7213884.21	2180606.61
6117.00	90.70	146.80	5181.44	1162.62	-880.18	766.69	1167.27	138.94	7.21	14.03G	7213858.17	2180625.20
6149.00	91.10	146.90	5180.94	1194.58	-906.97	784.18	1198.97	139.15	1.29	-38.65G	7213831.77	2180643.27
6180.00	91.60	146.50	5180.21	1225.53	-932.87	801.20	1229.70	139.34	2.07	74.03G	7213806.24	2180660.84
6212.00	92.00	147.90	5179.20	1257.47	-959.75	818.52	1261.39	139.54	4.55	0.00G	7213779.74	2180678.74
6244.00	93.10	147.90	5177.78	1289.37	-986.83	835.51	1293.03	139.75	3.44	29.69G	7213753.04	2180696.30
6275.00	93.80	148.30	5175.91	1320.23	-1013.10	851.86	1323.65	139.94	2.60	158.21G	7213727.13	2180713.21
6307.00	92.30	148.90	5174.21	1352.09	-1040.38	868.51	1355.25	140.14	5.05	-90.00G	7213700.22	2180730.44
6339.00	92.30	148.50	5172.93	1383.95	-1067.70	885.12	1386.87	140.34	1.25	164.05G	7213673.27	2180747.64
6371.00	90.90	148.90	5172.03	1415.84	-1095.03	901.74	1418.53	140.53	4.55	-171.87G	7213646.30	2180764.84
6403.00	88.80	148.60	5172.12	1447.73	-1122.39	918.34	1450.21	140.71	6.63	156.39G	7213619.32	2180782.03
6434.00	87.20	149.30	5173.20	1478.59	-1148.93	934.32	1480.87	140.88	5.63	-63.42G	7213593.13	2180798.57
6466.00	87.40	148.90	5174.71	1510.44	-1176.35	950.73	1512.52	141.05	1.40	-150.32G	7213566.06	2180815.57
6497.00	86.00	148.10	5176.49	1541.29	-1202.74	966.90	1543.21	141.20	5.20	-20.85G	7213540.03	2180832.31
6529.00	88.10	147.30	5178.14	1573.18	-1229.75	983.98	1574.96	141.34	7.02	-5.20G	7213513.40	2180849.96
6561.00	90.30	147.10	5178.59	1605.13	-1256.65	1001.31	1606.79	141.45	6.90	-36.87G	7213486.89	2180867.86
6593.00	91.10	146.50	5178.19	1637.09	-1283.42	1018.83	1638.65	141.56	3.12	-9.46G	7213460.50	2180885.96
6618.00	91.70	146.40	5177.58	1662.06	-1304.25	1032.64	1663.56	141.63	2.43	-11.30G	7213439.98	2180900.21
6650.00	92.20	146.30	5176.49	1694.02	-1330.87	1050.37	1695.43	141.72	1.59	-44.98G	7213413.74	2180918.50
6680.00	92.30	146.20	5175.32	1723.97	-1355.80	1067.02	1725.32	141.80	0.47	0.00G	7213389.19	2180935.69
6712.00	92.90	146.20	5173.87	1755.91	-1382.36	1084.80	1757.19	141.88	1.87	-56.27G	7213363.01	2180954.04
6744.00	93.10	145.90	5172.19	1787.85	-1408.87	1102.65	1789.06	141.95	1.13	40.53G	7213336.90	2180972.45
6775.00	93.80	146.50	5170.32	1818.77	-1434.58	1119.86	1819.92	142.02	2.97	80.50G	7213311.56	2180990.21
6807.00	93.90	147.10	5168.18	1850.66	-1461.30	1137.35	1851.74	142.11	1.90	125.72G	7213285.23	2181008.27
6839.00	92.10	149.60	5166.50	1882.53	-1488.50	1154.11	1883.51	142.21	9.62	112.81G	7213258.40	2181025.61
6871.00	91.30	151.50	5165.55	1914.31	-1516.35	1169.84	1915.16	142.35	6.44	153.44G	7213230.90	2181041.94
6903.00	90.70	151.80	5164.99	1946.02	-1544.51	1185.03	1946.74	142.50	2.10	-82.39G	7213203.08	2181057.73
6934.00	90.90	150.30	5164.56	1976.79	-1571.63	1200.03	1977.40	142.64	4.88	-135.00G	7213176.29	2181073.31
6965.00	90.80	150.20	5164.10	2007.60	-1598.54	1215.41	2008.13	142.75	0.46	-165.96G	7213149.72	2181089.27
6997.00	90.00	150.00	5163.88	2039.42	-1626.28	1231.37	2039.87	142.87	2.58	-53.13G	7213122.33	2181105.81
7029.00	90.60	149.20	5163.71	2071.27	-1653.88	1247.56	2071.65	142.97	3.12	-56.28G	7213095.09	2181122.60
7061.00	92.00	147.10	5162.98	2103.18	-1681.05	1264.44	2103.51	143.05	7.89	177.14G	7213068.29	2181140.06
7092.00	90.00	147.20	5162.44	2134.13	-1707.09	1281.25	2134.42	143.11	6.46	-161.57G	7213042.62	2181157.43
7124.00	89.10	146.90	5162.69	2166.09	-1733.94	1298.65	2166.35	143.17	2.96	5.71G	7213016.16	2181175.40
7156.00	93.10	147.30	5162.08	2198.03	-1760.80	1316.03	2198.26	143.23	12.56	-83.60G	7212989.68	2181193.35
7188.00	93.30	145.50	5160.29	2229.95	-1787.41	1333.71	2230.16	143.27	5.65	-161.58G	7212963.46	2181211.60
7219.00	92.40	145.20	5158.75	2260.90	-1812.88	1351.31	2261.10	143.30	3.06	23.17G	7212938.38	2181229.75
7251.00	93.10	145.50	5157.22	2292.86	-1839.18	1369.49	2293.05	143.33	2.38	154.43G	7212912.49	2181248.48
7283.00	90.80	146.60	5156.13	2324.82	-1865.70	1387.35	2324.99	143.37	7.97	-135.00G	7212886.35	2181266.91
7315.00	90.00	145.80	5155.90	2356.79	-1892.29	1405.15	2356.95	143.40	3.54	7.12G	7212860.15	2181285.27
7346.00	90.80	145.90	5155.69	2387.78	-1917.95	1422.55	2387.92	143.44	2.60	3.46G	7212834.88	2181303.22

N/S E/W

	7378.00	94.10	146.10	5154.32	2419.73	-1944.45	1440.42	2419.85	143.47	10.33	180.00G	7212808.78	2181321.66
	7410.00	93.90	146.10	5152.09	2451.63	-1970.94	1458.23	2451.74	143.50	0.62	180.00G	7212782.67	2181340.03
	7441.00	92.10	146.10	5150.47	2482.56	-1996.64	1475.49	2482.67	143.54	5.81	74.29G	7212757.36	2181357.85
	7473.00	92.80	148.60	5149.10	2514.48	-2023.55	1492.74	2514.57	143.58	8.11	-153.45G	7212730.82	2181375.67
	7505.00	92.20	148.30	5147.70	2546.36	-2050.80	1509.47	2546.42	143.65	2.10	-171.87G	7212703.95	2181392.98
	7537.00	90.10	148.00	5147.06	2578.27	-2077.97	1526.35	2578.32	143.70	6.63	-123.69G	7212677.15	2181410.44
	7568.00	89.70	147.40	5147.11	2609.20	-2104.18	1542.91	2609.24	143.75	2.33	-71.56G	7212651.31	2181427.57
	7600.00	89.80	147.10	5147.25	2641.15	-2131.09	1560.23	2641.18	143.79	0.99	90.00G	7212624.78	2181445.45
	7632.00	89.80	147.40	5147.36	2673.10	-2158.00	1577.54	2673.12	143.83	0.94	32.47G	7212598.25	2181463.34
	7663.00	90.90	148.10	5147.18	2704.04	-2184.22	1594.08	2704.05	143.88	4.21	20.20G	7212572.40	2181480.44
	7695.00	92.80	148.80	5146.14	2735.93	-2211.47	1610.81	2735.93	143.93	6.33	90.00G	7212545.51	2181497.76
Last Survey	7727.00	92.80	149.10	5144.58	2767.77	-2238.85	1627.30	2767.77	143.99	0.94	0.00G	7212518.49	2181514.83
To MD	*7766.00*	*92.80*	*149.10*	*5142.67*	*2806.57*	*-2272.28*	*1647.30*	*2806.57*	*144.06*	*0.00*	*0.00G*	*7212485.51*	*2181535.54*

Survey Type: Non-Def Survey

Survey Error Model: **SLB ISCWSA version 22 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Borehole -> Survey
-18.50	0.00	Act-Stns	SLB_CNSG+CASING	Original Hole -> GH 9 - OH - Scientific Def. Gyro Survey
0.00	4750.50	Act-Stns	SLB_CNSG+CASING	Original Hole -> GH 9 - OH - Scientific Def. Gyro Survey
4750.50	4939.00	Act-Stns	SLB_CNSG+DPIPE	Lateral 2 -> GH 9 Lateral #2 SE Field Survey
4939.00	7727.00	Act-Stns	SLB_MWD-STD	Lateral 2 -> GH 9 Lateral #2 SE Field Survey

**Italicized stations are NOT used in position calculations.*

QEP ENERGY

Deviation Summary

Well Name: GH 9 Lateral 2
TMD: 7,727.0 (ft) TVD: 5,144.56 (ft)
Closure Distance: 2,767.9 (ft) Closure Direction: 143.99 (°)
Location: 20- 8-S 21-E 26
Spud Date: 3/23/2010
Calculation Method: Minimum Curvature

S/T #	V.S. AZI (°)
OH	0.00
01	312.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	0.0	0.00	0.00	YNN	0.00	0.00	0.00	0.00	0.00	0.00	
01	4,855.0	1.35	179.95	NYN	4,853.98	-53.38	25.86	-54.95	0.00	0.00	GYR
01	4,939.0	15.90	335.60	NYN	4,936.98	-43.82	21.11	-45.02	20.40	17.32	MWD
01	4,970.0	23.10	335.50	YNN	4,966.18	-34.41	16.83	-35.53	23.23	23.23	MWD
01	5,002.0	29.50	337.50	YNN	4,994.86	-21.40	11.20	-22.65	20.19	20.00	MWD
01	5,033.0	34.30	336.20	YNN	5,021.17	-6.35	4.75	-7.78	15.64	15.48	MWD
01	5,065.0	37.40	331.90	YNN	5,047.11	10.48	-3.46	9.59	12.48	9.69	MWD
01	5,097.0	41.50	327.50	YNN	5,071.82	28.01	-13.74	28.95	15.50	12.81	MWD
01	5,128.0	47.10	330.70	YNN	5,094.00	46.59	-24.83	49.62	19.45	18.06	MWD
01	5,160.0	53.20	331.80	YNN	5,114.49	68.12	-36.63	72.80	19.24	19.06	MWD
01	5,191.0	55.40	328.10	YNN	5,132.58	89.90	-49.24	96.75	12.01	7.10	MWD
01	5,223.0	58.30	327.60	YNN	5,150.08	112.58	-63.50	122.52	9.16	9.06	MWD
01	5,255.0	64.30	327.50	YNN	5,165.44	136.25	-78.55	149.55	18.75	18.75	MWD
01	5,286.0	70.30	326.80	YNN	5,177.40	160.26	-94.06	177.14	19.47	19.35	MWD
01	5,318.0	71.00	326.80	YNN	5,188.00	185.53	-110.60	206.33	2.19	2.19	MWD
01	5,349.0	72.40	328.00	YNN	5,197.74	210.32	-126.45	234.70	5.82	4.52	MWD
01	5,381.0	77.80	328.90	YNN	5,205.96	236.67	-142.62	264.35	17.09	16.88	MWD
01	5,413.0	79.40	329.10	YNN	5,212.29	263.55	-158.78	294.35	5.04	5.00	MWD
01	5,445.0	80.10	329.30	YNN	5,217.98	290.60	-174.90	324.43	2.27	2.19	MWD
01	5,476.0	87.00	329.80	YNN	5,221.46	317.14	-190.50	353.78	22.32	22.26	MWD
01	5,508.0	88.80	328.90	YNN	5,222.63	344.65	-206.80	384.30	6.29	5.63	MWD
01	5,540.0	88.40	328.70	YNN	5,223.42	372.01	-223.38	414.93	1.40	-1.25	MWD
01	5,571.0	88.40	328.20	YNN	5,224.28	398.42	-239.59	444.65	1.61	0.00	MWD
01	5,603.0	88.10	328.00	YNN	5,225.26	425.58	-256.49	475.38	1.13	-0.94	MWD
01	5,634.0	87.30	325.90	YNN	5,226.50	451.54	-273.38	505.30	7.24	-2.58	MWD
01	5,662.0	87.40	326.30	YNN	5,227.80	474.75	-288.98	532.43	1.47	0.36	MWD
01	5,693.0	87.80	323.20	YNN	5,229.10	500.04	-306.86	562.63	10.07	1.29	MWD
01	5,725.0	87.20	322.10	YNN	5,230.49	525.46	-326.25	594.05	3.91	-1.88	MWD
01	5,757.0	88.90	319.10	YNN	5,231.58	550.17	-346.55	625.67	10.77	5.31	MWD
01	5,788.0	88.10	317.90	YNN	5,232.39	573.38	-367.08	656.46	4.65	-2.58	MWD
01	5,820.0	89.50	317.30	YNN	5,233.06	597.00	-388.66	688.30	4.76	4.38	MWD
01	5,851.0	89.40	315.00	YNN	5,233.36	619.35	-410.13	719.21	7.43	-0.32	MWD
01	5,883.0	86.50	310.30	YNN	5,234.50	641.01	-433.64	751.18	17.25	-9.06	MWD

QEP ENERGY

Deviation Summary

Well Name: GH 9 | Location: 20- 8-S 21-E 26 | S/T # OH | V.S. AZI (°) 0.00

TMD: 7,727.0 (ft) | TVD: 5,144.56 (ft) | Spud Date: 3/23/2010 | 01 | 312.00

Closure Distance: 2,767.9 (ft) | Closure Direction: 143.99 (°) | Calculation Method: Minimum Curvature

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	5,915.0	87.60	306.60	YNN	5,236.15	660.88	-458.66	783.07	12.05	3.44	MWD
01	5,946.0	89.90	307.60	YNN	5,236.83	679.57	-483.38	813.95	8.09	7.42	MWD
01	5,978.0	91.50	305.20	YNN	5,236.44	698.56	-509.13	845.79	9.01	5.00	MWD
01	6,010.0	90.90	305.10	YNN	5,235.77	716.98	-535.29	877.55	1.90	-1.88	MWD
01	6,041.0	91.70	305.50	YNN	5,235.06	734.89	-560.59	908.33	2.89	2.58	MWD
01	6,073.0	91.80	304.50	YNN	5,234.09	753.23	-586.79	940.08	3.14	0.31	MWD
01	6,105.0	89.80	302.40	YNN	5,233.64	770.87	-613.48	971.72	9.06	-6.25	MWD
01	6,136.0	86.90	302.00	YNN	5,234.53	787.38	-639.70	1,002.25	9.44	-9.35	MWD
01	6,167.0	83.60	302.00	YNN	5,237.10	803.75	-665.89	1,032.67	10.65	-10.65	MWD
01	6,199.0	82.70	301.80	YNN	5,240.92	820.54	-692.87	1,063.95	2.88	-2.81	MWD
01	6,231.0	87.00	300.60	YNN	5,243.79	837.04	-720.12	1,095.24	13.95	13.44	MWD
01	6,263.0	88.10	301.50	YNN	5,245.16	853.53	-747.51	1,126.63	4.44	3.44	MWD
01	6,294.0	89.20	301.10	YNN	5,245.89	869.63	-773.99	1,157.08	3.78	3.55	MWD
01	6,326.0	89.40	301.90	YNN	5,246.28	886.35	-801.27	1,188.55	2.58	0.63	MWD
01	6,358.0	88.90	301.30	YNN	5,246.75	903.12	-828.53	1,220.02	2.44	-1.56	MWD
01	6,389.0	88.10	300.80	YNN	5,247.56	919.10	-855.07	1,250.44	3.04	-2.58	MWD
01	6,421.0	86.70	299.40	YNN	5,249.01	935.13	-882.73	1,281.72	6.18	-4.38	MWD
01	6,455.0	87.00	297.80	YNN	5,250.88	951.38	-912.53	1,314.74	4.78	0.88	MWD
01	6,484.0	87.00	297.50	YNN	5,252.40	964.82	-938.19	1,342.80	1.03	0.00	MWD
01	6,516.0	90.80	297.90	YNN	5,253.02	979.69	-966.51	1,373.80	11.94	11.88	MWD
01	6,580.0	90.00	297.10	NYN	5,252.34	1,009.24	-1,023.28	1,435.76	1.77	-1.25	MWD
01	6,612.0	89.90	296.80	YNN	5,252.37	1,023.74	-1,051.80	1,466.66	0.99	-0.31	MWD
01	6,643.0	90.00	297.00	YNN	5,252.39	1,037.77	-1,079.45	1,496.59	0.72	0.32	MWD
01	6,670.0	88.80	298.30	YNN	5,252.68	1,050.30	-1,103.36	1,522.74	6.55	-4.44	MWD
01	6,702.0	88.60	297.70	YNN	5,253.40	1,065.32	-1,131.61	1,553.78	1.98	-0.63	MWD
01	6,733.0	87.90	296.80	YNN	5,254.35	1,079.50	-1,159.15	1,583.75	3.68	-2.26	MWD
01	6,771.0	86.60	296.30	YNN	5,256.17	1,096.47	-1,193.11	1,620.33	3.66	-3.42	MWD
01	6,797.0	87.90	296.90	YNN	5,257.42	1,108.10	-1,216.33	1,645.37	5.51	5.00	MWD
01	6,828.0	90.30	299.10	YNN	5,257.91	1,122.65	-1,243.69	1,675.44	10.50	7.74	MWD
01	6,860.0	90.10	299.40	YNN	5,257.80	1,138.28	-1,271.61	1,706.65	1.13	-0.63	MWD
01	6,892.0	88.20	299.60	YNN	5,258.27	1,154.04	-1,299.46	1,737.89	5.97	-5.94	MWD
01	6,924.0	89.00	299.50	YNN	5,259.05	1,169.82	-1,327.29	1,769.13	2.52	2.50	MWD
01	6,955.0	89.30	299.60	YNN	5,259.51	1,185.10	-1,354.25	1,799.39	1.02	0.97	MWD

QEP ENERGY

CONFIDENTIAL

Deviation Summary

Well Name: GH 9
TMD: 7,727.0 (ft) TVD: 5,144.56 (ft)
Closure Distance: 2,767.9 (ft) Closure Direction: 143.99 (°)
Location: 20- 8-S 21-E 26
Spud Date: 3/23/2010
Calculation Method: Minimum Curvature

S/T #	V.S. AZI (°)
OH	0.00
01	312.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
01	6,987.0	89.00	301.40	YNN	5,259.99	1,201.34	-1,381.82	1,830.75	5.70	-0.94	MWD
01	7,023.0	87.20	301.40	YNN	5,261.18	1,220.09	-1,412.53	1,866.11	5.00	-5.00	MWD
01	7,054.0	86.60	300.70	YNN	5,262.86	1,236.05	-1,439.05	1,896.50	2.97	-1.94	MWD
01	7,086.0	85.60	301.40	YNN	5,265.03	1,252.52	-1,466.40	1,927.85	3.81	-3.13	MWD
01	7,118.0	86.60	300.60	YNN	5,267.21	1,268.96	-1,493.76	1,959.18	4.00	3.13	MWD
01	7,150.0	90.80	300.80	YNN	5,267.94	1,285.29	-1,521.27	1,990.55	13.14	13.13	MWD
01	7,181.0	93.40	300.60	YNN	5,266.80	1,301.11	-1,547.90	2,020.92	8.41	8.39	MWD
01	7,213.0	92.50	302.70	YNN	5,265.15	1,317.87	-1,575.10	2,052.36	7.13	-2.81	MWD
01	7,245.0	91.30	302.90	YNN	5,264.09	1,335.20	-1,601.99	2,083.93	3.80	-3.75	MWD
01	7,276.0	89.30	304.40	YNN	5,263.93	1,352.38	-1,627.79	2,114.60	8.06	-6.45	MWD
01	7,308.0	89.00	305.90	YNN	5,264.40	1,370.80	-1,653.95	2,146.37	4.78	-0.94	MWD
01	7,340.0	86.90	307.10	YNN	5,265.55	1,389.82	-1,679.66	2,178.20	7.56	-6.56	MWD
01	7,372.0	84.40	306.90	YNN	5,267.98	1,409.02	-1,705.14	2,209.98	7.84	-7.81	MWD
01	7,403.0	83.90	307.10	YNN	5,271.14	1,427.58	-1,729.77	2,240.70	1.74	-1.61	MWD
02	7,150.0	90.30	300.70	NYN	5,267.97	1,285.48	-1,521.20	1,990.59	0.00	0.00	MWD
02	7,176.0	89.50	301.30	YNN	5,268.02	1,298.87	-1,543.49	2,016.15	3.85	-3.08	MWD
02	7,208.0	91.20	306.40	YNN	5,267.82	1,316.69	-1,570.05	2,047.81	16.80	5.31	MWD
02	7,239.0	88.50	309.00	YNN	5,267.90	1,335.64	-1,594.58	2,078.72	12.09	-8.71	MWD
02	7,271.0	88.60	308.70	YNN	5,268.71	1,355.71	-1,619.49	2,110.66	0.99	0.31	MWD
02	7,303.0	88.90	309.10	YNN	5,269.41	1,375.80	-1,644.39	2,142.61	1.56	0.94	MWD
02	7,335.0	88.90	309.90	YNN	5,270.02	1,396.15	-1,669.07	2,174.57	2.50	0.00	MWD
02	7,366.0	89.10	309.50	YNN	5,270.56	1,415.95	-1,692.92	2,205.54	1.44	0.65	MWD
02	7,398.0	89.10	309.40	YNN	5,271.07	1,436.28	-1,717.63	2,237.50	0.31	0.00	MWD
02	7,430.0	89.70	309.20	YNN	5,271.40	1,456.55	-1,742.39	2,269.47	1.98	1.88	MWD
02	7,461.0	89.90	309.10	YNN	5,271.51	1,476.12	-1,766.43	2,300.43	0.72	0.65	MWD
02	7,493.0	89.10	308.50	YNN	5,271.79	1,496.17	-1,791.37	2,332.38	3.12	-2.50	MWD
02	7,524.0	88.50	308.00	YNN	5,272.44	1,515.36	-1,815.71	2,363.30	2.52	-1.94	MWD
02	7,556.0	88.50	308.10	YNN	5,273.28	1,535.07	-1,840.90	2,395.22	0.31	0.00	MWD
02	7,588.0	88.70	308.00	YNN	5,274.06	1,554.79	-1,866.09	2,427.13	0.70	0.63	MWD
02	7,620.0	89.00	307.80	YNN	5,274.70	1,574.44	-1,891.33	2,459.04	1.13	0.94	MWD
02	7,651.0	89.10	309.10	YNN	5,275.21	1,593.72	-1,915.61	2,489.98	4.21	0.32	MWD
02	7,683.0	89.50	307.20	YNN	5,275.61	1,613.48	-1,940.77	2,521.90	6.07	1.25	MWD
02	7,715.0	89.40	307.50	YNN	5,275.91	1,632.89	-1,966.21	2,553.80	0.99	-0.31	MWD

QEP ENERGY

Deviation Summary

Well Name: GH 9
TMD: 7,727.0 (ft) TVD: 5,144.56 (ft)
Closure Distance: 2,767.9 (ft) Closure Direction: 143.99 (°)
Location: 20- 8-S 21-E 26
Spud Date: 3/23/2010
Calculation Method: Minimum Curvature

S/T #	OH
	01

V.S. AZI (°)
0.00
312.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
02	7,747.0	88.50	307.00	YNN	5,276.50	1,652.26	-1,991.67	2,585.68	3.22	-2.81	MWD
02	7,778.0	88.50	306.50	YNN	5,277.31	1,670.80	-2,016.50	2,616.54	1.61	0.00	MWD
02	7,810.0	89.00	306.30	YNN	5,278.01	1,689.79	-2,042.25	2,648.38	1.68	1.56	MWD
02	7,842.0	89.20	306.20	YNN	5,278.51	1,708.71	-2,068.06	2,680.21	0.70	0.63	MWD
02	7,873.0	89.20	306.20	YNN	5,278.94	1,727.01	-2,093.07	2,711.05	0.00	0.00	MWD
02	7,905.0	87.50	305.50	YNN	5,279.87	1,745.75	-2,119.00	2,742.85	5.74	-5.31	MWD
02	7,937.0	87.40	305.40	YNN	5,281.29	1,764.29	-2,145.04	2,774.61	0.44	-0.31	MWD
02	7,968.0	88.40	306.50	YNN	5,282.42	1,782.47	-2,170.12	2,805.42	4.79	3.23	MWD
02	8,031.0	90.20	306.90	YNN	5,283.19	1,820.12	-2,220.62	2,868.14	2.93	2.86	MWD
02	8,094.0	90.20	306.30	YNN	5,282.97	1,857.68	-2,271.20	2,930.86	0.95	0.00	MWD
02	8,126.0	87.80	306.80	YNN	5,283.53	1,876.73	-2,296.90	2,962.71	7.66	-7.50	MWD
02	8,158.0	87.40	306.50	YNN	5,284.87	1,895.82	-2,322.55	2,994.54	1.56	-1.25	MWD
02	8,189.0	86.50	305.50	YNN	5,286.52	1,914.01	-2,347.59	3,025.33	4.34	-2.90	MWD
02	8,221.0	87.40	305.60	YNN	5,288.23	1,932.59	-2,373.59	3,057.08	2.83	2.81	MWD
03	4,750.0	1.54	177.91	NYN	4,749.01	-50.91	25.82	56.61	0.00	0.00	
03	4,875.0	21.90	110.80	YNN	4,870.89	-60.98	47.93	77.45	17.08	16.29	MWD
03	4,907.0	28.90	112.50	YNN	4,899.78	-66.07	60.67	88.92	21.99	21.88	MWD
03	4,939.0	30.30	116.10	YNN	4,927.60	-72.58	75.06	102.51	7.07	4.38	MWD
03	4,970.0	29.40	118.50	YNN	4,954.49	-79.65	88.77	116.17	4.82	-2.90	MWD
03	5,002.0	32.30	118.20	YNN	4,981.96	-87.44	103.21	130.83	9.08	9.06	MWD
03	5,034.0	36.40	116.20	YNN	5,008.38	-95.68	119.28	146.79	13.29	12.81	MWD
03	5,065.0	40.60	115.70	YNN	5,032.63	-104.12	136.63	163.65	13.59	13.55	MWD
03	5,097.0	44.90	120.20	YNN	5,056.13	-114.32	155.78	183.00	16.48	13.44	MWD
03	5,129.0	50.30	127.40	YNN	5,077.72	-127.50	175.35	205.02	23.66	16.88	MWD
03	5,160.0	54.70	131.30	YNN	5,096.59	-143.10	194.34	228.69	17.35	14.19	MWD
03	5,192.0	58.10	133.80	YNN	5,114.30	-161.13	213.97	254.71	12.46	10.63	MWD
03	5,223.0	61.30	135.60	YNN	5,129.93	-179.96	232.98	281.04	11.47	10.32	MWD
03	5,255.0	64.70	138.60	YNN	5,144.46	-200.84	252.38	309.28	13.51	10.63	MWD
03	5,287.0	66.70	141.50	YNN	5,157.63	-223.20	271.10	338.33	10.36	6.25	MWD
03	5,318.0	67.70	143.30	YNN	5,169.65	-245.84	288.53	366.88	6.25	3.23	MWD
03	5,350.0	71.90	143.60	YNN	5,180.69	-269.96	306.41	396.89	13.15	13.13	MWD
03	5,381.0	78.40	145.10	YNN	5,188.63	-294.30	323.86	426.84	21.48	20.97	MWD
03	5,413.0	83.70	144.80	YNN	5,193.61	-320.17	342.01	458.44	16.59	16.56	MWD

Deviation Summary

Well Name: GH 9
TMD: 7,727.0 (ft) TVD: 5,144.56 (ft)
Closure Distance: 2,767.9 (ft) Closure Direction: 143.99 (°)
Location: 20- 8-S 21-E 26
Spud Date: 3/23/2010
Calculation Method: Minimum Curvature

S/T #	OH
	01

V.S. AZI (°)
0.00
312.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
03	5,445.0	85.40	144.30	YNN	5,196.65	-346.12	360.48	490.29	5.54	5.31	MWD
03	5,476.0	87.50	143.70	YNN	5,198.57	-371.15	378.67	521.22	7.04	6.77	MWD
03	5,508.0	91.40	143.40	YNN	5,198.88	-396.88	397.68	553.20	12.22	12.19	MWD
03	5,540.0	91.50	143.10	YNN	5,198.07	-422.51	416.82	585.18	0.99	0.31	MWD
03	5,571.0	91.20	142.70	YNN	5,197.34	-447.23	435.51	616.15	1.61	-0.97	MWD
03	5,603.0	91.40	142.40	YNN	5,196.61	-472.63	454.96	648.11	1.13	0.63	MWD
03	5,635.0	91.10	142.80	YNN	5,195.91	-498.05	474.39	680.08	1.56	-0.94	MWD
03	5,666.0	91.40	142.00	YNN	5,195.24	-522.60	493.30	711.04	2.76	0.97	MWD
03	5,698.0	90.90	141.10	YNN	5,194.59	-547.66	513.20	742.97	3.22	-1.56	MWD
03	5,730.0	90.10	141.20	YNN	5,194.32	-572.58	533.27	774.90	2.52	-2.50	MWD
03	5,761.0	88.40	140.60	YNN	5,194.72	-596.63	552.82	805.81	5.82	-5.48	MWD
03	5,793.0	88.10	140.80	YNN	5,195.70	-621.38	573.08	837.71	1.13	-0.94	MWD
03	5,800.0	88.30	139.90	YNN	5,195.92	-626.77	577.54	844.68	13.16	2.86	MWD
03	5,832.0	89.30	140.70	YNN	5,196.59	-651.38	597.98	876.57	4.00	3.13	MWD
03	5,863.0	91.60	141.60	YNN	5,196.34	-675.52	617.42	907.49	7.97	7.42	MWD
03	5,895.0	94.20	141.60	YNN	5,194.73	-700.57	637.27	939.39	8.13	8.13	MWD
03	5,927.0	95.10	141.90	YNN	5,192.13	-725.61	657.02	971.24	2.96	2.81	MWD
03	5,959.0	95.10	144.00	YNN	5,189.29	-751.05	676.22	1,003.09	6.54	0.00	MWD
03	5,990.0	94.80	144.30	YNN	5,186.61	-776.08	694.31	1,033.97	1.37	-0.97	MWD
03	6,022.0	92.80	145.10	YNN	5,184.49	-802.14	712.76	1,065.90	6.73	-6.25	MWD
03	6,054.0	92.40	145.40	YNN	5,183.04	-828.41	730.98	1,097.86	1.56	-1.25	MWD
03	6,085.0	91.40	144.60	YNN	5,182.01	-853.79	748.75	1,128.85	4.13	-3.23	MWD
03	6,117.0	90.70	146.80	YNN	5,181.43	-880.22	766.78	1,160.84	7.21	-2.19	MWD
03	6,149.0	91.10	146.90	YNN	5,180.92	-907.00	784.27	1,192.82	1.29	1.25	MWD
03	6,180.0	91.60	146.50	YNN	5,180.19	-932.91	801.29	1,223.79	2.07	1.61	MWD
03	6,212.0	92.00	147.90	YNN	5,179.19	-959.79	818.61	1,255.75	4.55	1.25	MWD
03	6,244.0	93.10	147.90	YNN	5,177.76	-986.87	835.60	1,287.68	3.44	3.44	MWD
03	6,275.0	93.80	148.30	YNN	5,175.90	-1,013.14	851.95	1,318.58	2.60	2.26	MWD
03	6,307.0	92.30	148.90	YNN	5,174.20	-1,040.42	868.60	1,350.47	5.05	-4.69	MWD
03	6,339.0	92.30	148.50	YNN	5,172.91	-1,067.74	885.21	1,382.38	1.25	0.00	MWD
03	6,371.0	90.90	148.90	YNN	5,172.02	-1,095.07	901.83	1,414.30	4.55	-4.38	MWD
03	6,403.0	88.80	148.60	YNN	5,172.10	-1,122.42	918.43	1,446.23	6.63	-6.56	MWD
03	6,434.0	87.20	149.30	YNN	5,173.18	-1,148.96	934.41	1,477.13	5.63	-5.16	MWD

CONFIDENTIAL

QEP ENERGY

Deviation Summary

Well Name: GH 9
TMD: 7,727.0 (ft) TVD: 5,144.56 (ft)
Closure Distance: 2,767.9 (ft) Closure Direction: 143.99 (°)
Location: 20- 8-S 21-E 26
Spud Date: 3/23/2010
Calculation Method: Minimum Curvature

S/T #	V.S. AZI (°)
OH	0.00
01	312.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
03	6,466.0	87.40	148.90	YNN	5,174.69	-1,176.39	950.82	1,509.01	1.40	0.63	MWD
03	6,497.0	86.00	148.10	YNN	5,176.48	-1,202.78	966.99	1,539.90	5.20	-4.52	MWD
03	6,529.0	88.10	147.30	YNN	5,178.12	-1,229.79	984.07	1,571.82	7.02	6.56	MWD
03	6,561.0	90.30	147.10	YNN	5,178.57	-1,256.68	1,001.40	1,603.80	6.90	6.88	MWD
03	6,593.0	91.10	146.50	YNN	5,178.18	-1,283.46	1,018.92	1,635.78	3.12	2.50	MWD
03	6,618.0	91.70	146.40	YNN	5,177.57	-1,304.29	1,032.73	1,660.76	2.43	2.40	MWD
03	6,650.0	92.20	146.30	YNN	5,176.48	-1,330.91	1,050.46	1,692.73	1.59	1.56	MWD
03	6,680.0	92.30	146.20	YNN	5,175.30	-1,355.83	1,067.11	1,722.70	0.47	0.33	MWD
03	6,712.0	92.90	146.20	YNN	5,173.85	-1,382.40	1,084.89	1,754.66	1.88	1.88	MWD
03	6,744.0	93.10	145.90	YNN	5,172.17	-1,408.91	1,102.74	1,786.61	1.13	0.63	MWD
03	6,775.0	93.80	146.50	YNN	5,170.31	-1,434.62	1,119.95	1,817.55	2.97	2.26	MWD
03	6,807.0	93.90	147.10	YNN	5,168.16	-1,461.34	1,137.44	1,849.46	1.90	0.31	MWD
03	6,839.0	92.10	149.60	YNN	5,166.48	-1,488.54	1,154.20	1,881.36	9.62	-5.63	MWD
03	6,871.0	91.30	151.50	YNN	5,165.54	-1,516.39	1,169.93	1,913.19	6.44	-2.50	MWD
03	6,903.0	90.70	151.80	YNN	5,164.98	-1,544.55	1,185.12	1,944.97	2.10	-1.88	MWD
03	6,934.0	90.90	150.30	YNN	5,164.54	-1,571.67	1,200.12	1,975.80	4.88	0.65	MWD
03	6,965.0	90.80	150.20	YNN	5,164.08	-1,598.58	1,215.50	2,006.66	0.46	-0.32	MWD
03	6,997.0	90.00	150.00	YNN	5,163.86	-1,626.32	1,231.46	2,038.54	2.58	-2.50	MWD
03	7,029.0	90.60	149.20	YNN	5,163.69	-1,653.92	1,247.65	2,070.43	3.12	1.88	MWD
03	7,061.0	92.00	147.10	YNN	5,162.97	-1,681.09	1,264.53	2,102.37	7.89	4.38	MWD
03	7,092.0	90.00	147.20	YNN	5,162.43	-1,707.13	1,281.34	2,133.35	6.46	-6.45	MWD
03	7,124.0	89.10	146.90	YNN	5,162.68	-1,733.98	1,298.75	2,165.32	2.96	-2.81	MWD
03	7,156.0	93.10	147.30	YNN	5,162.06	-1,760.84	1,316.12	2,197.29	12.56	12.50	MWD
03	7,188.0	93.30	145.50	YNN	5,160.28	-1,787.45	1,333.80	2,229.23	5.65	0.63	MWD
03	7,219.0	92.40	145.20	YNN	5,158.74	-1,812.92	1,351.40	2,260.19	3.06	-2.90	MWD
03	7,251.0	93.10	145.50	YNN	5,157.20	-1,839.21	1,369.58	2,292.15	2.38	2.19	MWD
03	7,283.0	90.80	146.60	YNN	5,156.11	-1,865.74	1,387.44	2,324.13	7.97	-7.19	MWD
03	7,315.0	90.00	145.80	YNN	5,155.89	-1,892.33	1,405.24	2,356.12	3.54	-2.50	MWD
03	7,346.0	90.80	145.90	YNN	5,155.67	-1,917.98	1,422.64	2,387.11	2.60	2.58	MWD
03	7,378.0	94.10	146.10	YNN	5,154.30	-1,944.49	1,440.51	2,419.07	10.33	10.31	MWD
03	7,410.0	93.90	146.10	YNN	5,152.07	-1,970.98	1,458.32	2,450.99	0.63	-0.63	MWD
03	7,441.0	92.10	146.10	YNN	5,150.45	-1,996.68	1,475.58	2,481.94	5.81	-5.81	MWD
03	7,473.0	92.80	148.60	YNN	5,149.08	-2,023.59	1,492.83	2,513.88	8.11	2.19	MWD

QEP ENERGY

Deviation Summary

Well Name: GH 9
TMD: 7,727.0 (ft) TVD: 5,144.56 (ft)
Closure Distance: 2,767.9 (ft) Closure Direction: 143.99 (°)
Location: 20- 8-S 21-E 26
Spud Date: 3/23/2010
Calculation Method: Minimum Curvature

S/T #	V.S. AZI (°)
OH	0.00
01	312.00

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Vert. Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
03	7,505.0	92.20	148.30	YNN	5,147.69	-2,050.84	1,509.56	2,545.79	2.10	-1.88	MWD
03	7,537.0	90.10	148.00	YNN	5,147.04	-2,078.01	1,526.44	2,577.74	6.63	-6.56	MWD
03	7,568.0	89.70	147.40	YNN	5,147.10	-2,104.21	1,543.01	2,608.70	2.33	-1.29	MWD
03	7,600.0	89.80	147.10	YNN	5,147.24	-2,131.13	1,560.32	2,640.68	0.99	0.31	MWD
03	7,632.0	89.80	147.40	YNN	5,147.35	-2,158.04	1,577.63	2,672.65	0.94	0.00	MWD
03	7,663.0	90.90	148.10	YNN	5,147.16	-2,184.26	1,594.17	2,703.62	4.21	3.55	MWD
03	7,695.0	92.80	148.80	YNN	5,146.13	-2,211.51	1,610.90	2,735.54	6.33	5.94	MWD
03	7,727.0	92.80	149.10	YNN	5,144.56	-2,238.89	1,627.39	2,767.42	0.94	0.00	MWD

43-047-32304

CONFIDENTIAL

QEP ENERGY

Operations Summary Report - PREP FOR DRILL WORK

Well Name: GH 9
Location: ~~20-8-S-21-E-26~~ 8S 21E 20
Rig Name:

Spud Date: 3/23/2010
Rig Release:
Rig Number:

Date	From - To	Hours	Code	Sub Code	Description of Operations
3/4/2010	07:00 - 19:00	12.00	BOP	1	TIGHT HOLE - PREP FOR DRILL On 3/3/10 @ 7:00 AM - MIRU, hot oiler had 200 bbls chemical water down csg, well circulated after 20 bbls. Unhang rods, lay down H-head, test tbg to 800 psi, good test, good pump action. Unseat pump, flush tbg w/ 70 bbls chemical water. POOH w/ rods & pump, laying down rods on trailer. Flush tbg w/ 60 bbls chemical water, X-over to tbg equipment, ND WH, unland tbg, try to release TAC, unable to get it to release. RU rig floor & tongs, work tbg. TAC came free. ND rig floor, NU BOP's, RU rig floor. Secure well. SDFN @ 7:00 PM. 24 Hour Forecast: Run bit & scraper. POOH & lay down tbg. Csg Size: 5-1/2" 17# K-55 Csg Depth: 5378'
3/5/2010	07:00 - 19:00	12.00	BOP	1	TIGHT HOLE - PREP FOR DRILL On 3/4/10 @ 7:00 AM - 0 psi on well. POOH w/ 2-7/8" tbg, TAC hanging up on csg collars. RIH w/ 5-1/2" csg scraper to 4871', POOH w/ tbg. RU wireline, RIH w/ 5-1/2" RBP, set plug @ 4870'. RD wireline, RIH w/ 2-7/8" tbg, tag plug @ 4870'. Lay down one jt tbg. Fill hole w/ 88 bbls chemical water, circ hole clean w/ 150 bbls chemical water. POOH & lay down 108 jts tbg. Secure well. SDFN @ 7:00 PM. 24 Hour Forecast: Finish POOH & lay down tbg. Csg Size: 5-1/2" 17# K-55 Csg Depth: 5378'
3/6/2010	07:00 - 19:00	12.00	BOP	1	TIGHT HOLE - PREP FOR DRILL On 3/5/10 @ 7:00AM - 0 psi on well, continue POOH & laying down 2-7/8" tbg. RD Rig floor, ND BOP's. Install B-1 flange, NU WH. RDMO. Leave well Shut in. Road rig to Brennan #8. SDFN. FINAL REPORT. Csg Size: 5-1/2" 17# K-55 Csg Depth: 5378'

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: AZTEC

Spud Date: 3/23/2010
Rig Release: 4/16/2010
Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Description of Operations
3/23/2010	06:00 - 06:00	24.00	LOC	3	RIG DOWN AND MOVE RIG FROM THE OP 16G TO THE GH #9.(19 MILES) RIG 100% RIGGED DOWN, 90% MOVED (STILL NEED SOME PIPE FROM wEATHERFORD) AND 75% RIGGED UP, DERRICK UP, BACK YARD AND TRAILERS SET AND RIGGRD UP, WATER SYSTEM CIRCULATING, MUD TANKS FILLED AND CIRCULATING MUD SYSTEM
3/24/2010	06:00 - 10:00	4.00	LOC	4	RIG UP: FINISH RIGGING UP FLOOR AND WINDWALLS, WORK ON DERRICK (WELDING WORK FOR TOP DRIVE TRACK)
	10:00 - 13:00	3.00	OTH		INSTALL 4" LINERS IN PUMP, RIG ON DAYRATE AT 10:00 AM ON 3/23/2110
	13:00 - 20:00	7.00	BOP	1	NIPPLE UP BOP, INSTALL 2 7/8 PIPE RAMS
	20:00 - 23:30	3.50	BOP	2	TEST BOP, DART AND TIW VALVES, TOP DRIVE DOUBLE BALL VALVE, PIPE RAMS, KILL VALVE, CHECK VALVE, CHOKE VALVE AND CHOKE MANIFOLD - 3000 PSI HIGH, 250 PSI LOW, ANNULAR - 1500 HIGH, 250 PSI LOW, CASING 300 PSI
	23:30 - 01:30	2.00	OTH		FINISH FABRICATION ON FLOW LINE AND INSTALL
	01:30 - 02:30	1.00	RIG	6	CUT DRILLING LINE, CHANGE OUT LOAD CELL ON DEADMAN
	02:30 - 03:30	1.00	TRP	1	LINE UP AND STRAP BHA
	03:30 - 04:00	0.50	OTH		HELD SAFETY MEETING AND RIG UP LAY DOWN TRUCK TO PICK UP 2 7/8 DRILL STRING
	04:00 - 05:00	1.00	OTH		INSTLALL WEAR BUSHING
	05:00 - 06:00	1.00	TRP	1	PICK UP BHA
3/25/2010	06:00 - 10:00	4.00	TRP	1	PICK UP 2 7/8" DRILL PIPE
	10:00 - 10:30	0.50	OTH		RIG DOWN LAY DOWN TRUCK
	10:30 - 11:00	0.50	OTH		SET TORQUE ON TOP DRIVE
	11:00 - 13:00	2.00	CIRC	1	TAG BRIGE PLUG @ 4873'. CIRCULATE HOLE WITH 100 BBLS OF 225 DWG WATER
	13:00 - 15:30	2.50	TRP	2	TRIP OUT OF HOLE FOR WHIPSTOCK
	15:30 - 16:30	1.00	RIG	1	SERVICE TOP DRIVE AND RIG
	16:30 - 17:30	1.00	WOT	4	WAIT ON UBHO SUB FROM SIENTIFIC
	17:30 - 18:00	0.50	TRP	1	PICK UP AND MAKE UP WHIP STOCK ASSEMBLY
	18:00 - 21:00	3.00	TRP	2	TRIP IN THE HOLE WITH THE WHIP STOCK ASSEMBLY
	21:00 - 23:30	2.50	DRL	3	ORINATE AND SET WHIP STOCK @ 317 DEGREES
	23:30 - 06:00	6.50	FISH	1	MILL THE WINDOW FROM 4858 FEET TO 4862
3/26/2010	06:00 - 09:00	3.00	FISH	1	MILL WINDOW F/4862 T/4869
	09:00 - 10:00	1.00	CIRC	1	CIRCULATE HIGH VIS SWEEP
	10:00 - 12:00	2.00	TRP	2	TRIP OUT OF HOLE FOR DIRECTIONAL TOOLS-LAY DOWN MILLS
	12:00 - 16:00	4.00	TRP	1	PICK UP DIRECTIONAL TOOLS, ORIENT AND TEST
	16:00 - 18:00	2.00	TRP	2	TRIP IN THE HOLE WITH DIRECTIONAL TOOLS
	18:00 - 20:00	2.00	LOG	2	RIG UP WIRE LINE TRUCK (CASED HOLE SOLUTIONS) AND TRIP IN THE HOLE
	20:00 - 20:30	0.50	DRL	2	DIRECTIONAL DRILL FROM 4864 FT TO 4866 FEET
	20:30 - 21:30	1.00	LOG	2	TRIP OUT WITH WIRE LINE AND REPAIRE LEAK ON X.O. SUB TO PACK OFF HEAD
	21:30 - 22:30	1.00	LOG	2	RUN IN THE HOLE WITH GYRO TOOLS, ORINATE TOOL FACE
	22:30 - 06:00	7.50	DRL	2	DIRECTIONAL DRILL FOR BUILD SECTION FROM 4866 FEET TO 4913
3/27/2010	06:00 - 09:00	3.00	DRL	2	DIRECTIONAL DRILL WITH GYRO F/4913 T/4978
	09:00 - 10:00	1.00	OTH		P.O.O.H WITH GYRO AND RIF DOWN WIRELINE
	10:00 - 06:00	20.00	DRL	2	DIRECTIONAL DRILL F/4978 T/ 5380
3/28/2010	06:00 - 14:00	8.00	DRL	2	DIRECTIONAL DRILL F/5380 T/5672 292' 36.5'/HR WOB 12/14 RPM 155/195 GPM 155
	14:00 - 15:00	1.00	CIRC	1	CIRCULATE HIGH VIS SWEEP
	15:00 - 18:00	3.00	TRP	10	TRIP OUT OF HOLE

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: AZTEC

Spud Date: 3/23/2010
Rig Release: 4/16/2010
Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Description of Operations
3/28/2010	18:00 - 20:30	2.50	TRP	1	LAY DOWN MOTOR, BIT PICK UP NEW MOTOR AND BIT SCRIB THE MOTOR AND TEST THE MOTOR
	20:30 - 23:30	3.00	TRP	2	TRIP IN THE HOLE TO THE WINDOW@ 4845
	23:30 - 00:00	0.50	RIG	1	RIG SERVICE
	00:00 - 01:00	1.00	TRP	2	FILL THE PIPE AND TRIP IN THE HOLE TO 5640 FT.
	01:00 - 01:30	0.50	REAM	1	WASH AND REAM FROM 5640 TO 5672 FEET
	01:30 - 04:00	2.50			TROUBLE SHOOT THE M.W.D. TOOLS
	04:00 - 06:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 5672 TO 5750
3/29/2010	06:00 - 09:30	3.50	DRL	2	DIRECTIONAL DRILL F/5750 T/5954 204' 58.2'/HR WOB 12/14 RPM 220 GPM 147
	09:30 - 10:30	1.00	SUR	1	SURVEYS AND CONNECTIONS
	10:30 - 11:30	1.00	DRL	2	DIRECTIONAL DRILL F/5954 T/6017 63' 63'/HR SAME PARAMETERS
	11:30 - 12:30	1.00	RIG	1	RIG SERVICE AND CHANGE OUT WASH PIPE
	12:30 - 16:30	4.00	DRL	1	DIRECTIONAL DRILL F/6017 T/6156 139' 34.8'/HR SAME PARAMETERS
	16:30 - 18:30	2.00	CIRC	1	CIRCILATE, TROUBLE MWD-TOOL FAILURE. BRING MUD WT TO 9.0 PGM
	18:30 - 23:00	4.50	TRP	13	TRIP OUT FOR M.W.D. FAILURE PUMP TRIP SLUG @ THE WINDOW
	23:00 - 01:00	2.00	TRP	1	LAY DOWN BIT MOTOR PICK UP A NEW BIT AND NEW MOTOR ORINATE TOOLS
	01:00 - 03:00	2.00	TRP	2	TRIP IN THE HOLE SURFACE TEST MOTOR (O.K.) TO THE WINDOW FILL THE PIPE
	03:00 - 03:30	0.50	CIRC	1	CIRC. GAS FROM THE WELL AT 4240 FEET WITH 15 TO 20 FT' FLARE
	03:30 - 04:30	1.00	TRP	2	TRIP IN THE HOLE
	04:30 - 05:00	0.50	REAM	1	WASH 45' TO BOTTOM
	05:00 - 06:00	1.00	DRL	2	DIRECTIONAL DRILL F/6156 T/6176
3/30/2010	06:00 - 00:00	18.00	DRL	2	DIRECTIONAL DRILL F/6175 T/ 6742 567' 31.5'/HR WOB 12/14 ROM 210 GPM 140
	00:00 - 01:00	1.00	SUR	1	SURVEY AND CONNECTIONS
	01:00 - 02:00	1.00	OTH		TROUBLE SHOOT M.W.D. TOOLS
	02:00 - 06:00	4.00	TRP	13	M.W.D. TOOLS FAILED TROP OUT OF HOLE
3/31/2010	06:00 - 09:30	3.50	TRP	1	CHANGE OUT DIRECTIONAL TOOLS, ORIENT AND TEST
	09:30 - 11:30	2.00	TRP	13	TRIP IN HOLE TO THE WINDOW @ 4864 FT'
	11:30 - 12:00	0.50	CIRC	1	CIRC OUT GAS
	12:00 - 13:00	1.00	TRP	2	TRIP IN THE HOLE
	13:00 - 14:00	1.00	REAM	1	WASH 35' TO BOTTOM,RE LOG HOLE
	14:00 - 05:00	15.00	DRL	2	DRIECTIONAL DRILL FROM 6742 TO 7055 313' 20.8'/HR WOB 14/15 RPM 205 GPM 140
	05:00 - 06:00	1.00	SUR	1	CONNECTIONS AND CURVEYS
4/1/2010	06:00 - 10:00	4.00	CIRC	1	TROUBLE SHOOT MWD, TOOL FAILURE. CIRCULATE HIGH VIS SWEEP
	10:00 - 11:30	1.50	TRP	13	TRIP OUT OF THE HOLE FOR MWD FAILURE
	11:30 - 12:00	0.50	CIRC	1	MIX AND PUMP TRIP SLUG
	12:00 - 15:30	3.50	TRP	13	TRIP OUT OF HOLE FOR MWD
	15:30 - 17:00	1.50	TRP	1	CHANGE OUT BIT AND MOTOR,P/U DIRECTIONAL TOOLS AND SHOCK SUG ORIENT AND TEST
	17:00 - 19:00	2.00	TRP	2	TRIP IN THE HOLE 2828 FT FILL PIPE
	19:00 - 19:30	0.50	CIRC	1	CIRC GAS FROM THE WELL
	19:30 - 20:30	1.00	TRP	2	TRIP IN THE HOLE
	20:30 - 21:00	0.50	CIRC	1	FILL THE PIPE AND CIRC OUT THE GAS AT THE WINDOW
	21:00 - 22:00	1.00	TRP	2	TRIP IN THE HOLE WASH AND REAM 50 FEET TO BOTTOM
	22:00 - 23:30	1.50	OTH		TROUBLE SHOOT THE MWD TOOLS
	23:30 - 05:00	5.50	DRL	2	DIRECTIONAL DRILL FROM 7055 FT TO 7134 83' 15.1'/HR
	05:00 - 06:00	1.00	SUR	1	SURVEYS AND CONNECTIONS

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: AZTEC

Spud Date: 3/23/2010
Rig Release: 4/16/2010
Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/2/2010	06:00 - 15:00	9.00	DRL	2	DIRECTIONAL DRILL F/7134 T/ 7258 FT'
	15:00 - 16:00	1.00	RIG	1	RIG SERVICE
	16:00 - 17:00	1.00	DRL	2	DIRECTIONAL DRILL FROM 7258 FT TO 7270 FT.
	17:00 - 18:00	1.00	SUR	1	SURVEY & CONNECTIONS
	18:00 - 04:00	10.00	DRL	2	DIRECTIONAL DRILL FROM 7270 FT TO 7380 110' 11'/HR
	04:00 - 04:30	0.50	CIRC	1	CIRC UP SAMPLES
	04:30 - 06:00	1.50	DRL	2	DIRECTIONAL DRILL F/7380 T/7400 20' 13.3'/HR
4/3/2010	06:00 - 13:00	7.00	DRL	2	DIRECTIONAL DRILL F/7400 T/7452
	13:00 - 14:30	1.50	CIRC	1	PUMP FRESH WATER/HIGH VIS SWEEP
	14:30 - 17:00	2.50	TRP	10	TRIP OUT OF THE HOLE FOR BIT, LAY DOWN 11 JTS OF DRILL PIPE
	17:00 - 17:30	0.50	CIRC	1	MIX AND PUMP TRIP SLUG
	17:30 - 19:30	2.00	TRP	10	TRIP OUT OF HOLE
	19:30 - 21:30	2.00	TRP	1	LAYD DOWNBIT, MUD MOTOR, XO SUBS AND SHOCK SUB SURFACE TEST MOTOR EXCESSIBE PRESSURE =3000 + PSI
	21:30 - 23:00	1.50	TRP	1	CHANGE OUT MOTORS AND REORIENATE M W D TOOLS SURFACE TEST MOTOR= 2000 PSI
	23:00 - 00:00	1.00	TRP	2	TRIP IN THE HOLE TO 2820 FEET
	00:00 - 00:30	0.50	CIRC	1	CIRC OUT GAS @ 2820 FEET
	00:30 - 01:30	1.00	TRP	2	TRIP IN THE HOLE TO 5161 FEET
	01:30 - 02:00	0.50	CIRC	1	CIRC OUT GAS & WATER @ 5200 FT (APPROX 40 TO 50 BBL'S FORMATION WATER)
	02:00 - 03:00	1.00	TRP	2	TRIP IN THE TO 7150 FEET
	03:00 - 05:00	2.00	DRL	7	TROUGH HOLE FROM 7150 FT TO 7160 FEET FOR SIDE TRACK #1
	05:00 - 06:00	1.00	DRL	2	TIME DRILL F/7160 T/7161
4/4/2010	06:00 - 08:30	2.50	DRL	2	TIME DRILL F/7161 T/7170
	08:30 - 10:30	2.00	DRL	2	DIRECTIONAL DRILL F/7170 T/7189
	10:30 - 12:00	1.50	CIRC	1	TROUBLE SHOT MWD-TOOL FAILURE
	12:00 - 13:30	1.50	TRP	13	TRIP OUT OF HOLE FOR MWD TO WINDOW
	13:30 - 14:00	0.50	CIRC	1	MIX AND PUMP TRIP SLUG
	14:00 - 16:00	2.00	TRP	1	TRIP OUT OF HOLE FOR MWD
	16:00 - 17:30	1.50	TRP	1	CHANGE OUT MWD,CHECK MOTOR AND BIT. TEST TOOLS
	17:30 - 18:00	0.50	TRP	13	TRIP IN HOLE
	18:00 - 18:30	0.50	CIRC	1	FILL PIPE AND CIRC OUT GAS @ 2818 FEET
	18:30 - 20:00	1.50	TRP	2	TRIP IN THE HOLE
	20:00 - 20:30	0.50	CIRC	1	CIRC OUT GAS AND WATER @ 5220 FEET (APPROX. 30 TO 35 BBL'S OF WATER)
	20:30 - 21:30	1.00	TRP	2	TRIP IN THE HOLE TO 7150
	21:30 - 22:00	0.50	OTH		ORINATE TOOLS THROUGH THE SIDE TRACK FROM 7150 FEET TO 7160 FEET
	22:00 - 00:00	2.00	DRL	2	DIRECTIONAL DRILL FROM 7189 FEET TO 7233
	00:00 - 01:00	1.00	OTH		TROUBLE SHOOT M.W.D. TOOLS
	01:00 - 04:30	3.50	TRP	13	TRIP FOR M.W.D. FAILURE
	04:30 - 06:00	1.50	TRP	1	CHANGE MWD TOOLS AND CHECK MOTOR AND BIT
4/5/2010	06:00 - 06:30	0.50	TRP	1	CHANGE OUT MWD AND TEST TOOLS
	06:30 - 10:00	3.50	TRP	13	TRIP IN HOLE TO SIDE TRACK
	10:00 - 11:00	1.00	CIRC	1	CIRCULATE GAS AND WATER OUT OF HOLE, ORIENT TOOL FACE AND WASH PAST SIDETRACK
	11:00 - 17:00	6.00	DRL	2	DIRECTIONAL DRILL F/7233 T/
	17:00 - 18:00	1.00	SUR	1	SURVEYS AND CONNECTIONS
	18:00 - 19:00	1.00	DRL	2	DIRECTIONAL DRILL FROM 7494 FT TO 7515 FT.
	19:00 - 22:00	3.00	OTH		TROUBLE SHOOT M.W.D. TOOLS

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: AZTEC

Spud Date: 3/23/2010
Rig Release: 4/16/2010
Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/5/2010	22:00 - 23:00	1.00	TRP	13	TRIP TO THE WINDOW
	23:00 - 00:00	1.00	CIRC	1	MIX & PUMP TRIP SLUG
	00:00 - 01:30	1.50	TRP	13	TRIP FOR MWD FAILURE
	01:30 - 03:00	1.50	TRP	1	CHANGE OUT MWD TOOLS & BIT TEST MOTOR AND MWD TOOLS(O.K.)
	03:00 - 06:00	3.00	TRP	2	TRIP IN THE HOLE WITH BHA# 9
4/6/2010	06:00 - 07:00	1.00	TRP	13	TRIP IN HOLE
	07:00 - 08:30	1.50	TRP	13	WENT IN OLD SIDE TRACK HOLE. TRIP OUT TO SIDE TRACK, ORIENT TOOLFACE AND TRIP IN HOLE
	08:30 - 09:00	0.50	REAM	1	WASH 45' TO BOTTOM
	09:00 - 02:00	17.00	DRL	1	DIRECTIONAL DRILL F/7515 T/ 8098 FEET 783' 34.2'/HR WOB 14/15 RPM 235 GPM 140
	02:00 - 02:30	0.50	CIRC	1	CIRC UP SAMPLES @ 8098 FEET
	02:30 - 06:00	3.50	DRL	2	DIRECTIONAL DRILL FROM 8098 FEET TO 8129 31' 8.8'/HR
4/7/2010	06:00 - 10:30	4.50	DRL	2	DIRECTIONAL DRILL F/8129 T/8255 126' 28'/HR WOB 14/15 RPM 235 GPM 140
	10:30 - 11:30	1.00	TRP	14	SHORT TRIP TO 7500', WASH 60' TO BOTTOM- NO FILL
	11:30 - 19:00	7.50	CIRC	1	CIRCULATE AND CONDITION HOLE FOR LINER. PUMP FRESH WATER/ HIGH VIS SWEEP
	19:00 - 21:00	2.00	TRP	2	TRIP OUT TO THE WINDOW@ 4858 FT
	21:00 - 22:00	1.00	CIRC	1	MIX AND PUMP TRIP SLUG
	22:00 - 00:00	2.00	TRP	2	TRIP OUT OF THE HOLE FOR LINNER S.L.M.
	00:00 - 01:30	1.50	TRP	1	BREAK OUT AND LAY DOWN DIRECTIONAL TOOLS
	01:30 - 03:00	1.50	CSG	1	HOLD SAFETY MEETING AND RIG UP LAY DOWN MACHINE AND CASING CREWS
	03:00 - 06:00	3.00	CSG	2	RUN 3 1/2" P-110 FLUSH JT PERFORATED CASING
4/8/2010	06:00 - 08:00	2.00	CSG	2	PICK UP 3287.3' OF 3 1/2",P-110, 9.2# ULTRA FLUSH JT LINER
	08:00 - 09:00	1.00	CSG	2	RIG DOWN CASING CREW AND LAY DOWN TRUCK
	09:00 - 11:00	2.00	TRP	2	TRIP IN HOLE WITH LINER AND SET @ 8152'. TOP OF LINER 4855'. TOP PERF 5421'. EVERY OTHER JOINT PERFERATED.
	11:00 - 12:00	1.00	CIRC	1	CIRCULATE GAS OUT OF HOLE AND RIG UP LAY DOWN TRUCK
	12:00 - 15:00	3.00	TRP	3	LAY DOWN 110 JOINTS OF DRILL PIPE
	15:00 - 15:30	0.50	CSG	1	RIG DOWN LAY DOWN TRUCK
	15:30 - 16:00	0.50	TRP	2	TRIP OUT OF HOLE
	16:00 - 16:30	0.50	LOG	4	HOLD SAFETY MEETING AND RIG UP WIRELINE TRUCK
	16:30 - 19:00	2.50	LOG	4	RUN GAUGE RING AND JUNK BASKET TO 4855'. R.I.H. WITH RPB ANS SET @ 4793', POOH AND RIG DOWN WIRELINE TRUCK
	19:00 - 20:30	1.50	TRP	1	PICK UP WHIPSTOCK AND MILLING ASSEMBLY AND ORIENTSCIENTIFIC MUELSHOE
	20:30 - 23:30	3.00	TRP	2	TRIP IN THE HOLE (SLM) TO 4781'
	23:30 - 00:30	1.00	LOG	4	HELD SAFETY MEETING, RIG UP WIRELINE TRUCK AND RUN IN THE HOLE WITH GYRO TOOL
	00:30 - 01:00	0.50	LOG	4	SEAT GYRO TOOL AND SET WHIPSTOCK. TOP AT 4775, BOTTOM AT 4781, SET AT 147 DEGREE TOOLFACE
	01:00 - 01:30	0.50	LOG	4	PULL OUT OF THE HOLE WITH GYRO TOOL AND RIG DOWN WIRELINE TRUCK
	01:30 - 06:00	4.50	FISH	1	MILL WINDOW FROM 4775 TO 4780 35' BOTTOMS UP FLARE
4/9/2010	06:00 - 08:30	2.50	DRL	1	MILL FROM 4780 TO 4784
	08:30 - 09:00	0.50	CIRC	1	PUMP AND CIRC OUT HIGH VIS SWEEP
	09:00 - 11:00	2.00	TRP	10	TRIP OUT OF THE HOLE FOR BIT #11 AND DIRECTIONAL TOOLS
	11:00 - 12:00	1.00	RIG	6	CUT DRILLING LINE
	12:00 - 14:00	2.00	TRP	1	PICK UP DIRECTIONAL TOOLS, ORIENT AND TEST
	14:00 - 16:00	2.00	TRP	2	TRIP IN THE HOLE

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: AZTEC

Spud Date: 3/23/2010
Rig Release: 4/16/2010
Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/9/2010	16:00 - 18:00	2.00	LOG	4	RIG UP WIRELINE TRUCK AND RUN IN THE HOLE WITH GYRO TOOL,AND ORIENT AT WINDOW
	18:00 - 21:00	3.00	DRL	2	DIRECTIONAL DRILL WITH GYRO TOOL FROM 4784 TO 4850 66' ROP - 18.9'/HR GPM - 124 WOB - 10/15
	21:00 - 22:30	1.50	LOG	4	POOH WITH GYRO, MAKE CONNECTION, RIH WITH GYRO AND SEAT
	22:30 - 00:30	2.00	DRL	2	DIRECTIONAL DRILL WITH GYRO TOOL FROM 4850 TO 4892 42' ROP - 21'/HR GPM - 124 WOB - 10/15
	00:30 - 01:00	0.50	OTH		TAKE MWD SURVEY AND VERIFY GYRO DATA
	01:00 - 02:00	1.00	DRL	2	DIRECTIONAL DRILL WITH GYRO FROM 4892 TO 4912' 20' ROP - 20'/HR GPM - 124 WOB - 10/15
	02:00 - 03:00	1.00	LOG	4	POOH WITH GYRO AND RIG DOWN WIRELINE TRUCK
	03:00 - 06:00	3.00	DRL	2	DIRECTIONAL DRILL FROM 4912 TO 5015
4/10/2010	06:00 - 17:00	11.00	DRL	2	DIRECTIONAL DRILL FROM 5015 TO 5301 286' ROP - 26'/HR GPM - 140 WOB - SLIDING 25-30, ROTATING 13-15
	17:00 - 18:00	1.00	SUR	1	SURVEYS AND CONNECTIONS
	18:00 - 04:30	10.50	DRL	1	DIRECTIONAL DRILL FROM 5301 TO 5765' 464' ROP - 44.2'/HR GPM - 140 WOB - 15/25 ENTERED ZONE @ 5404 MD, 5192 TVD
	04:30 - 06:00	1.50	SUR	1	CONNECTIONS AND SURVEYS
4/11/2010	06:00 - 07:00	1.00	DRL	2	DIRECTIONAL DRILL FROM 5765' TO 5827' 62' ROP - 62'/HR WOB - 14 GPM - 140
	07:00 - 11:00	4.00	TRP	10	TRIP OUT OF THE HOLE FOR BIT #12 PUMPED FRESH WATER/VIS SWEEP PRIOR TO COMING OUT OF THE HOLE
	11:00 - 13:00	2.00	TRP	1	LAY DOWN AND PICK UP BIT AND MOTOR, ORIENT AND TEST
	13:00 - 15:00	2.00	TRP	10	TRIP IN THE HOLE TO 4770'
	15:00 - 16:30	1.50	RIG	6	SLIP AND CUT DRLG LINE, SLIP ON NEW SPOOL
	16:30 - 17:00	0.50	TRP	10	TRIP IN THE HOLE - GAINED 42 BBLS OF PRODUCTION WATER ON THE TRIP
	17:00 - 17:30	0.50	REAM	1	WASH 30' TO BOTTOM
	17:30 - 03:30	10.00	DRL	2	DIRECTIONAL DRILL FROM 5827' TO 6145' 318' RPO - 31.8 WOB - 15/25 GPM - 160
	03:30 - 06:00	2.50	SUR	1	CONNECTIONS AND SURVEYS
4/12/2010	06:00 - 14:00	8.00	DRL	2	DIRECTIONAL DRILL FROM 6145 TO 6415 270' ROP - 33.75'/HR WOB - 15/18 ROTATING, 38/40 SLIDING GPM - 160 PUMPED WATER/VIS SWEEP PRIOR TO SHORT TRIP
	14:00 - 14:30	0.50	TRP	14	SHORT TRIP TO 5815'
	14:30 - 05:00	14.50	DRL	2	DIRECTIONAL DRILL FROM 6415' TO 6661' 246' ROP - 16.9'/HR WOB - 14/30 GPM - 140/160
	05:00 - 06:00	1.00	SUR	1	CONNECTIONS AND SURVEYS
4/13/2010	06:00 - 11:00	5.00	TRP	10	TRIP OUT OF THE HOLE PUMPED WATER/VIS SWEEP PRIOR TO TRIPPING OUT FUNCTION PIPE RAMS AND BLIND RAMS
	11:00 - 12:00	1.00	TRP	1	CHANGE OUT MOTOR AND BIT, ORIENT AND TEST
	12:00 - 15:30	3.50	TRP	2	TRIP IN THE HOLE RE LOG HOLE WITH GAMA FROM 6651 TO 6661
	15:30 - 03:30	12.00	DRL	2	DIRECTIONAL DRILL FROM 6661 TO 7125 464' ROP - 38.66'/HR GPM - 145 WOB - 14/30
	03:30 - 06:00	2.50	SUR	1	CONNECTIONS AND SURVEYS
4/14/2010	06:00 - 10:00	4.00	DRL	2	DIRECTIONAL DRILL FROM 7125 TO 7250 125' ROP - 31.25'/HR GPM - 145 WOB - 14/30
	10:00 - 11:00	1.00	TRP	14	SHORT TRIP TO 6620 GAINED 30 BBLS OF INJECTION WATER/OIL ON TRIP PUMPED WATER/VIS SWEEP PRIOR TO TRIP
	11:00 - 16:00	5.00	DRL	2	DIRECTIONAL DRILL FROM 7250 TO 7507 257'

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: AZTEC

Spud Date: 3/23/2010
Rig Release: 4/16/2010
Rig Number: 777

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/14/2010	11:00 - 16:00	5.00	DRL	2	ROP - 51.4'/HR GPM - 145 WOB - 14/30
	16:00 - 18:00	2.00	SUR	1	CONNECTIONS AND SURVEYS
	18:00 - 01:00	7.00	DRL	2	DIRECTIONAL DRILL FROM 7507 TO 7766 (TD) 259' ROP - 37'/HR WOB - 14/30 GPM - 145
	01:00 - 02:30	1.50	SUR	1	CONNECTIONS AND SURVEYS
	02:30 - 03:00	0.50	CIRC	1	CIRCULATE UP SAMPLE/BOTTOMS UP
	03:00 - 04:30	1.50	TRP	14	SHORT TRIP TO 6651, GAINED 20 BBLS
	04:30 - 06:00	1.50	CIRC	1	CIRCULATE FOR CASING
4/15/2010	06:00 - 08:30	2.50	TRP	2	TRIP OUT TO THE WINDOW
	08:30 - 09:30	1.00	CIRC	1	CIRCULATE BOTTOMS UP AND PUMP SLUG NO FLARE NO EXTRA GAS UNITS
	09:30 - 12:00	2.50	TRP	2	TRIP OUT OF THE HOLE
	12:00 - 13:00	1.00	TRP	1	LAY DOWN DIRECTIONAL TOOLS
	13:00 - 14:00	1.00	CSG	1	HELD SAFETY MEETING AND RIG UP CASING CREW
	14:00 - 16:00	2.00	CSG	2	RUN 3.5" 9.2# P-110 UFJ CASING GAINED 50 BBLS IN 2 HRS
	16:00 - 17:00	1.00	CIRC	1	BULLHEAD 50 BBLS OF 10.8 PPG MUD
	17:00 - 18:30	1.50	CSG	2	RUN 91 JOINTS OF 3.5", 9.2#, P-110, ULTRA FLUSH JOINT CASING
	18:30 - 19:00	0.50	CSG	1	RIG DOWN CASING CREW
	19:00 - 20:00	1.00	TRP	2	TRIP IN THE HOLE WITH LINER TO THE WINDOW GAINED 50 BBLS IN 3 HRS
	20:00 - 20:30	0.50	CIRC	1	BULL HEAD 50 BBLS OF 9.7 PPG MUD
	20:30 - 22:00	1.50	TRP	2	TRIP IN THE HOLE WITH LINER
	22:00 - 23:00	1.00	CIRC	1	CIRCULATE OUT GAS, 4446 MAX UNITS, 15 - 20' FLARE
	23:00 - 23:30	0.50	CSG	2	ATTEMPT TO SET CASING HANGER,
	23:30 - 03:30	4.00	TRP	3	SLUG PIPE AND LAY DOWN DRILL PIPE, LINER STILL HANGING ON DRILL STRING
	03:30 - 06:00	2.50	OTH		DECIDE ON A GAME PLAN, CLEAN OUT LINER HANGER SETTING TOOL (LOCKED UP AND FULL OF DEBRIS) WAIT ON 3 MORE JOINTS OF CASING, ELEVATORS AND LIFT NUBBIN, STRAP HWDP AND
4/16/2010	06:00 - 08:00	2.00	CSG	2	P/U 3 JOINTS OF CASING AND LINER HANGER RAN A TOTAL OF 94 JOINTS OF 3.5", 9.2#, P-110, ULTRA FLUSH JOINT
	08:00 - 09:30	1.50	CSG	2	PICK UP 75 JOINTS OF HWDP
	09:30 - 11:00	1.50	CIRC	1	CIRCULATE OUT GAS - 10-12' FLARE, BULLHEAD 40 BBLS
	11:00 - 12:30	1.50	CSG	2	TRIP IN THE HOLE WITH LINER
	12:30 - 13:00	0.50	CSG	4	SET LINER HANGER, SHOE AT 7757', TOP OF LINER AT 4790' PERFORATED PIPE EVERY OTHER JOINT FROM 7757' TO 5496'
	13:00 - 14:30	1.50	CIRC	1	CIRCULATE OUT GAS AND SLUG PIPE BOTTOMS UP FLARE 10-12'
	14:30 - 18:30	4.00	TRP	3	LAY DOWN DRILL PIPE AND HANGER
	18:30 - 19:00	0.50	CSG	1	RIG DOWN LAYDOWN TRUCK
	19:00 - 19:30	0.50	LOG	4	RIG UP WIRELINE TRUCK
	19:30 - 21:00	1.50	LOG	4	RIH WITH 4.5" GAGE RING AND JUNK BASKET TO 4375, POOH AND P/U RBP AND RIH AND SET REMOVABLE BRIDGE PLUG AT 4260', POOH AND RIG DOWN WIRELINE TRUCK
	21:00 - 23:00	2.00	BOP	1	NIPPLE DOWN BOP, FLOW LINE AND CHOKE MANIFOLD
	23:00 - 01:00	2.00			CLEAN MUD TANKS RIG RELEASED AT 01:00 HRS ON 4/16/2010
	01:00 - 06:00	5.00	LOC	4	RIG DOWN

QEP ENERGY

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/20/2010	06:00 - 16:00	10.00	BOP	2	"TIGHT HOLE"; Initial reort ofwell completion On 4/20/10 SICP=0#. NDWH and NU BOP's. Tally and rabbit in the hole with a 4-3/4" bit and 5-1/2" csg.scraper and 2-7/8" used tbg.with ball tet sub to tag of RBP at 4260'. Circ.hole with 120 bbl.of 2% KCL water. Drop test ball and test tbg.to 4000# and held OK. Reverse out ball. POOH with bit and tbg..RIH with ret.head and tbg.to top of RBP at 4260' and tag and pull ret.head to 4240' and SIFN. On 4/21/10 will release RBP at 4260' and POOH and pick up 2-3/8" hydril tbg.and 2-7/8" tbg.and go into upper slotted liner to prepare for acid jobs on 4/22/10. Casing size: 3-1/2" 9.3# and 5-1/2" 15.5# Casing depth: 8152' & 7757'
4/21/2010	06:00 - 16:00	10.00	LOC	2	"TIGHT HOLE" Initial report of well completion. On 4/21/10 SITP and SICP=0#. Latch onto and release 5-1/2" RVP at 4160' and POOH with plug and tbg..Tally and rabbit in the hole with 60 jts. (1830) of 2-3/8" hydril tbg., x-over and 152 jts.of 2-7/8" tg.to 6578" tbg.to 6578'. Had to pump a total of 65 bbl.of brine today to control water, oil and gas flow. SIFN. On 4/22/10 will acidize 3-1/2" lateral. Casing size: 3-1/2" 9.3" and 5-1/2" 15.5# Casing depth: 8152' & 7757'
4/22/2010	06:00 - 16:00	10.00	BOP	1	"TIGHT HOLE: Initial report of well completion On 4/19/10 MIRU Rocky Mtn.WS to start completion of this dual lateral well. Spot equipment and SDFN. On 4/20/10 will NU BOP's and RIH with bit and scraper. Casing size: 3-1/2" 9.33 and 5-1/2" 15.5# Casing depth: 8152' & 7757'
4/23/2010	06:00 - 16:00	10.00	STIM	1	"TIHGT HOLE" : Initial report of well completion On 4-22/10 STIP=425# and SICP=450# with 2-3/8" and 2-7/8" tbg.string with 2-3/8" hydril tbg.string at 6578'. Circ.80 bbl.of 2% KCL water down the tbg...MIRU Halliburton acid crew and acidize the upper 3-1/2" lateral in 2 stages of acid with each stage consisting of 7000 gal.each of 15% HCL with additives. All acid was spotted to the bottom of the tbg.prio to bullheading all acid into the formation at depths below. With tbg.tail at 6578' pump the 7000 gal.of acid and flush with 5 bbl.of water and 35 bbl.of 10# brine. Max.psi=3400#; Ave=2400'; Max.rate=8.5'; Ave=6 BPM; ISIP=1000#; Pull tg.tail to 6230' and acidize the lateral with 7000 gal.of acid and flush with 10 bbl. of water and 35 bbl.of brine water. Max.psi-1900#; Ave=1200#; Max.rate=8.5' Ave=7 PBMP; ISIP=1080#. RDMO Halliburton. Pull tbg.tail out of the liner to 4700' and SIFN. On 4/23/10 will flow test and or pull and lay down the 2-3/8 hydril string. LLTR: 500 Perfs: slotted 3-1/2 liner Casing size: 3-/12" 9.3# and 5-1/2" 15.5# Casing depth: 8152 & 7757'
4/26/2010	06:00 - 16:00	10.00	PTST	2	"TIGHT HOLE"; Initial report of well completion On 4/23/10 SITP=200# and SICP=575#. RU flow back tank. Open csg.to tank on a

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/26/2010	06:00 - 16:00	10.00	PTST	2	4/64" choke and flowed csg. for 7 hours and filled flow back tank and recovered a total of 410 bbl.of oil (w/o shirinkage) and 55 bbl.of water. NOTE: The fluid is cold and thease could change but the samples were heated during the flowback with the fnal oil cut at 100%. Initial FCP was 575# at 8:00AM on a 4/64" choke and the folloing are the FCP's on a 40/64" chke during the day: 9:00AM 275# (142 bbl.rec.): 10:00AM=200# (220 rec.): 11:00M=150# (305 rec.): noon= 100# (425 rec.): 2:00PM-70# WIT H465 bbl .total recoverd.Had a Total load of 500 bbl.to recover. Have rec. an est.55 bbl.of water today. SIFW. On 4/2/10 will heat flow back tank and check pressures and attemt to circ. well to POOH with tbg.. Casing size: 3-1/2" 9.3# and 5 -1/2" 15.5# Casing depth: 8162' & 7757' Load from yesterday: 500 Minus diaily reocvery: 55 LLTR: 445 Perfs: slotted 3-1/2 liner.
4/27/2010	06:00 - 16:00	10.00	HOT	1	On 4/26/10 SITP=260# and SICP=550#. MIRU additional flow back tank. Left well SI for the day while hot oiler heated and transferred fluid from flow back tank. On 4/27/10 will bleed off well and attempt to POOH with tbg.and run production string. LLTR: 445 Perfs: slotted 3-1/2 liner. Casing size: 3-1/2" 9.3# and 5-1/2" 15.5# Casing depth: 8152' & 7757'
4/28/2010	06:00 - 16:00	10.00	CIRC	1	"TIGHT HOLE": Initial report of well completion. On 4/27/10 SITP=290# and SICP=600#. Bled down the well and recovered approx.320 bbl.of fluid with an est 60% oil cut (fluid does not allow for shrinkage). FCP of 60# on a full 1" line and holding. Circ.well with 140 bbl.of 10# brine. Csg.continued to flow during pull out of 2-7/8" tbg.and died with the 2-3/8" hydril tbg.at surface. Lay down the 2-3/8" hydril work string. RIH with production tbg.as below. Attempt ot set anchor catcher and would not set. NUWH and SIFN. On 4/28/10 will run pump and rods and RDMO Rocky Mtn. WS. Tbg.Detail: (4/27/10): Barred NC; 1jt.tbg.; SN; 5-1/2" B-2 anchor catcher; 151 jts.of tbg.to surface. All tbg.is used 2-7/8 EUE 8rd J-55 6.5#. Tbg.tail at 4760.30'; SN at 4729.01'; Anchor at 4727.14';. NOTE: Anchor is not set. Details: NC=0.44'; 1 jt.of tbg.=30.85'; SN=1.12'; AC=2.75'; 151 jts.of tbg.=4711.14'; KB=14' Casing size: 3-1/2" 9.3# and 5-1/2" 15.5# Casing depth: 8152' & 7757 Load from yesterday: 445 Minus daily recovery: 45 Plus water today: 140

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
4/28/2010	06:00 - 16:00	10.00	CIRC	1	LLTR: 540 Perfs: slotted 3-1/2 liner.
4/29/2010	06:00 - 16:00	10.00	HOT	1	On 4/28/10 SITP and SICP=50#. Pump 40 bbl.of hot brine down the tbg.to kill. Bucket test new pump and RIH with new pump and rods as below. Seat pump and load tbg.with 1/2 bbl.of water and long stroke pump to 700# and held OK. Clamp off polish rod and RDMO Rocky Mtn.WS. Turn well over to production. Final report of this completion in the upper lateral. Rod and pump detail: (4/28/10): 2-1/2" x 1-3/4"x20x23x23 RHAC Wetherford pump; 35-3/4" guided rods; 48-3/4" plain rods; 55-7/8 plain rods; 49-1" plain rods; 1-2'x1" pony rod; 1-1/2" x 26' polish rod. All rods are class "D". Tbg.Detail: (4/27/10): Barred NC; 1 jt.tbg.; SN; 5-1/2" B-2 anchor catcher; 151 jts.of tbg. to surface. All tbg.is used 2-7/8" EUE 8rd J-55 6.5#. Tbg.tail at 4760.20'; SN at 4729.01'; Anchor at 4727.14'. NOTE: Anchor is not set. Details: NC=0.44'; 1 jt of tbg.=30.85'; SN=1.12'; AC=2.75'; 151 jts.of tbg.=4711.14'; KB=14' Load from yesterday: 540 Plus water today: 40 LLTR: 580 Perfs: slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time. CASING SIZE: 3-1/2" 9.3# and 5-1/2" 15.5# CASING DEPTH: 8152' & 7757'
6/14/2010	06:00 - 16:00	10.00	LOC	3	TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral. On 6/11/10 MIRU Rocky Mountain WS. Left the well pumping to production over the weekend. 24 Hour Forecast: Will POOH w/ rods & pump & tbg & RIH w/ tool to pull whipstock. Rod and pump detail: (4/28/10): 2-1/2" x 1-3/4"x20x23x23 RHAC Wetherford pump; 35-3/4" guided rods; 48-3/4" plain rods; 55-7/8 plain rods; 49-1" plain rods; 1-2'x1" pony rod; 1-1/2" x 26' polish rod. All rods are class "D". Tbg.Detail: (4/27/10): Barred NC; 1 jt.tbg.; SN; 5-1/2" B-2 anchor catcher; 151 jts.of tbg. to surface. All tbg.is used 2-7/8" EUE 8rd J-55 6.5#. Tbg.tail at 4760.20'; SN at 4729.01'; Anchor at 4727.14'. NOTE: Anchor is not set. Details: NC=0.44'; 1 jt of tbg.=30.85'; SN=1.12'; AC=2.75'; 151 jts.of tbg.=4711.14'; KB=14' Perfs:

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/14/2010	06:00 - 16:00	10.00	LOC	3	slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time. CASING SIZE: 3-1/2" 9.3# and 5-1/2" 15.5# CASING DEPTH: 8152' & 7757'
6/15/2010	06:00 - 16:00	10.00	OTH		TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral. On 6/14/10 - RU hot oiler & circ 75 bbls of hot 2% KCL snake water down the csg. Unseat standing valve & flush tbg w/ 75 bbls of the same. POOH w/ polish rod & rods & plunger & standing valve for the tbg pump. NDWH. Release tbg anchor. NU BOP's. POOH w/ tbg & pump barrel a& anchor. SIFN. 24 Hour Forecast: Will RIH w/ whipstock ret. tool to attempt to pull & retrieve whipstock. Csg Size: 3-1/2" 9.3# & 5-1/2" 15.5# Csg Depth: 8152' & 7757' Tbg.Detail: (4/27/10): Barred NC; 1 jt.tbg.; SN; 5-1/2" B-2 anchor catcher; 151 jts.of tbg. to surface. All tbg.is used 2-7/8" EUE 8rd J-55 6.5#. Tbg.tail at 4760.20'; SN at 4729.01'; Anchor at 4727.14'. NOTE: Anchor is not set. Details: NC=0.44'; 1 jt of tbg.=30.85'; SN=1.12'; AC=2.75'; 151 jts.of tbg.=4711.14'; KB=14' Perfs: slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time.
6/16/2010	06:00 - 16:00	10.00	OTH		TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral. On 6/15/10 SICP = 50#. RIH w/ whipstock ret. tool, jars & 4 - 3-1/2" DC's & tbg. Engage whipstock @ 4775' & jar whipstock free. POOH w/ whipstock & lay down along w/ the tools. RIH w/ 5-1/2" ret. head & ball test sub & 2-7/8" tbg to 4660' & SIFN. 24 Hour Forecast: Will attempt to pull RBP. Csg Size: 3-1/2" 9.3# & 5-1/2" 15.5# Csg Depth: 8152' & 7757' Perfs: Slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time.
6/17/2010	06:00 - 16:00	10.00	EQT	4	TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral.

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/17/2010	06:00 - 16:00	10.00	EQT	4	On 6/16/10 SITP and SICP=40#. Bled down. With tbg.and ret head at 4660' drop ball to test tbg.in tbg.sub and test tbg.to 3000# and held OK. Attempt to circ.out ball and could not establish circ.Swab tbg.dry and POOH with tbg.Remove ball and test sub. RIH with ret.head and latch onto and release RBP at 4792'. POOH with plug and tbg..SIFN. On 6/17/10 will pick up 2-3/8" hydrill and 2-7/8" tbg.and attempt to go into bottom lateral. Too windy to pick up tb.on PM of 6/16/10 24 Hour Forecast: Too windy to pick up tbg. Csg Size: 3-1/2" 9.3# & 5-1/2" 15.5# Csg Depth: 8152' & 7757' Load from yesterday: 150 Plus water today: 250 LLTR: 400 Perfs: Slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time.
6/18/2010	06:00 - 16:00	10.00	EQT	4	TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral. On 6/17/10 - SITP = 40#. Bled off. Pump 10 bbls of 2% KCL water. Tally & PU & RIH w/ 110 jts of 2-3/8" hydrill tbg work string & x-over & 2-7/8" tbg thru the bottom lateral & tag @ 8140'. Pull tbg tail to 7835' & SI the well until AM of 6/21/10 when the lateral will get acidized. Csg Size: 3-1/2" 9.3# & 5-1/2" 15.5# Csg Depth: 8152' & 7757' Load from yesterday: 400 Plus water today: 10 LLTR: 410 bbls Perfs: Slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time.
6/22/2010	06:00 - 16:00	10.00	STIM	1	TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral. On 6/21/10 SITP = 40# & SICP = 160# w/ tbg tail @ 7835'. Bled off well. RIH w/ dual 2-3/8" hydril & 2-7/8" workstring f/ 7835' to 8127'. MIRU Halliburton acid crew to acidize lower 3-1/2" cased horizontal lateral (5221-8152') using 15% HCL acid w/ additives & spotting all acid to the bottom of the tbg prior to bullhading the acid as follows: Zone #1: Tbg tail @ 8127'. Acidize w/ 6000 gals of acid & flush w/ 30 bbls of 2% KCL water & 10 bbls of brine. Avg psi = 2850#, ISIP = 460#. Pull tbg tail to 7724'. Zone #2: With tbg tail @ 7724' acidize w/ 7000 gals of acid & flush w/ 28 bbls of 2%

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/22/2010	06:00 - 16:00	10.00	STIM	1	KCL water & 10 bbls of brine. Avg psi = 3250#, ISIP = 550#. Pull tbg tail to 7353'. Zone #3: With tbg tail @ 7353' acidize w/ 7000 gals of acid & flush w/ 25 bbls of 2% KCL & 10 bbls of brine. Avg psi = 2850#. Avg rate = 5.9 BPM; ISIP = 565#. Pull tbg tail @ 6668'. Zone #4: With tbg tail @ 6668' acidize w/ 7000 gals of acid & flush w/ 22 bbls of 2% KCL & 10 bbls of brine. Avg psi = 3380#. Avg rate = 6.7 BPM. ISIP = 720#. Pull tbg tail to 6016'. Zone #5: With tbg tail @ 6016' acidize w/ 8000 gals of acid & flush w/ 18 bbls of 2% KCL water & 10 bbls of brine. Avg psi = 3270#. Avg rate = 6.8 BPM. ISIP = 700#. RDMO Halliburton. Pull tbg tail to 3340' to the 2-3/8" hydril tbg & SIFN. 24 Hour Forecast: Will POOH & lay down the 2-3/8" hydril workstring & RIH w/ production tbg. Csg Size: 3-1/2" 9.3# & 5-1/2" 15.5# Csg Depth: 8152' & 7757' Load from yesterday: 400 Plus water today: 10 LLTR: 410 bbls Perfs: Slotted 3-1/2 liner upper liner acidized only and production will be from that lateral until a later time. Lateral #1 (lower) = 5421-8152' Lateral #2 (upper): 5496-7757'
6/23/2010	06:00 - 16:00	10.00	LOC	4	TIGHT HOLE - Resumption of report discontinued on 4/19/10: This work will be to complete the well in the lower lateral. On 6/22/10 SITP = 40# & SICP = 60#. Bled off gas. POOH while laying down 110 jts of 2-3/8" hydril tbg workstring. RIH w/ production tbg as follows: Barred NC; 1 jt; SN; 2' pup jt, 20'x2-1/4" pump barrell; 6' pup jt, B-2 AC; 150 jts of tbg. All tbg is 2-7/8" EUE 8RD J-55 6.5#. ND BOP's & set AC w/ 11M# tension. NUWH. Pump 6 bbls of snake oil down the tbg & drop the SV. RIH w/ 2-1/4"x5' plunger; 22x1-1/2" polish rod, 3'x1' rod, 35-3/4" guided rods; 52-3/4" plain rods; 51-7/8" plain rods; 47-1" plain rods; 8'x1"; 6'x1"; 2-2'x1" pony rods; a 26'x1-1/2" polish rod. Load tbg w/ 3 bbls of water & long stroke to test tbg & pump to 750# & held OK. Hang off well & turn well over toproduction department. 24 Hr Forecast: Will RDMO Rocky Mtn WS. FINAL REPORT of this recompletion of the lower lateral. Csg Size: 3-1/2" 9.3# & 5-1/2" 15.5# Csg Depth: 8152' & 7757' LLTR: 1420 bbls Perfs: Slotted 3-1/2 liner upper liner acidized only and production will be from that lateral

Operations Summary Report

Well Name: GH 9
Location: 20- 8-S 21-E 26
Rig Name: ROCKY MTN WS

Spud Date: 3/23/2010
Rig Release:
Rig Number: 3

Date	From - To	Hours	Code	Sub Code	Description of Operations
6/23/2010	06:00 - 16:00	10.00	LOC	4	until a later time. Lateral #1 (lower) = 5421-8152' Lateral #2 (upper): 5496-7757' Tbg Details of 6/22/10: Barred NC = 0.44' 1 jt of tbg = 30.88' SN = 0.77' 2' Pup = 2.29' 20' x 2-1/4" ID Pump = 20.17" 6' Pup = 6.18' Nabors B-2 Anchor Catcher Set in 11M# tension = 2.77' 150 jts of tbg to surface = 4653.53' Tension = 1.0' KB = 14' EOT @ 4732.03' SN @ 4700.71' AC @ 4671.30' All tbg is 2-7/8" EUE 8RD 6.5# J-55. Rod & Pump Detail as of 6/22/10 As above Pump: Weatherford 2-1/4"x2-7/8"x20x22x28, Tbg Pump: #2508, Max Stroke = 265"